STIC Search Report
EIC 1700

USPTO

TO: Aravind K Moorthy
Location: 4B14
Art Unit : 2131
December 23, 2003

Case Serial Number: 09/596924

From: Terese Esterheld
Location: EIC 2100
CPK2 4B30
Phone: 308-7795

Terese.Esterheld@uspto.gov

Search Notes

Dear Examiner Moorthy,

I have searched Encryption or Cryptographic Service, Pricing, Computational Burden, Privacy Level and Speed.

I found patents that contain parts of your request.

Please look over the complete package as there may be articles not marked that are of value to you.

If I can be of further assistance with this search, please let me know.

Terese Esterheld

sira
Search and Information
Resources Administration

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Set      Items    Description
S1       5899     AU=(BERSON, T? OR BERSON T? OR DEAN, R? OR DEAN R? OR FRAN-
                  KLIN, M? OR FRANKLIN M? OR LUNT,, T? OR LUNT T? OR SMETTERS, -
                  D? OR SMETTERS D?)
S2          2     S1 AND (ENCRYPTION OR CRYPTOGRAPHIC)()SERVICE?
File     2:INSPEC 1969-2003/Dec W1
            (c) 2003 Institution of Electrical Engineers
File     6:NTIS 1964-2003/Dec W3
            (c) 2003 NTIS, Intl Cpyrght All Rights Res
File     8:Ei Compendex(R) 1970-2003/Dec W2
            (c) 2003 Elsevier Eng.  Info. Inc.
File    34:SciSearch(R) Cited Ref Sci 1990-2003/Dec W3
            (c) 2003 Inst for Sci Info
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            (c) 2003 ProQuest Info&Learning
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            (c) 2003 BLDSC all rts. reserv.
File    92:IHS Intl.Stds.& Specs. 1999/Nov
            (c) 1999 Information Handling Services
File    94:JICST-EPlus 1985-2003/Dec W3
            (c)2003 Japan Science and Tech Corp(JST)
File    95:TEME-Technology & Management 1989-2003/Nov W5
            (c) 2003 FIZ TECHNIK
File    99:Wilson Appl. Sci & Tech Abs 1983-2003/Nov
            (c) 2003 The HW Wilson Co.
File   103:Energy SciTec 1974-2003/Dec B1
            (c) 2003 Contains copyrighted material
File   144:Pascal 1973-2003/Dec W2
            (c) 2003 INIST/CNRS
File   202:Info. Sci. & Tech. Abs. 1966-2003/Nov 17
            (c) 2003 EBSCO Publishing
File   233:Internet & Personal Comp. Abs. 1981-2003/Jul
            (c) 2003, EBSCO Pub.
File   239:Mathsci 1940-2003/Jan
            (c) 2003 American Mathematical Society
File   275:Gale Group Computer DB(TM) 1983-2003/Dec 23
            (c) 2003 The Gale Group
File   434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
            (c) 1998 Inst for Sci Info
File   647:CMP  Computer Fulltext 1988-2003/Dec W3
            (c) 2003 CMP Media, LLC
File   674:Computer News Fulltext 1989-2003/Dec W1
            (c) 2003 IDG Communications
File   696:DIALOG Telecom. Newsletters 1995-2003/Dec 22
            (c) 2003 The Dialog Corp.
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T S2/5/ALL

2/5/1   (Item 1 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

6887599   INSPEC Abstract Number: B2001-05-6120D-032, C2001-05-6130S-037
  Title: Cryptography everywhere
  Author(s): Berson, T.A.
  Author Affiliation: Anagram Labs., Xerox Palo Alto Res. Center, CA, USA
  Conference   Title: Advances   in   Cryptology   -   ASIACRYPT   2000.   6th
International Conference on the Theory and Application of Cryptology and
Information Security. Proceedings (Lecture Notes in Computer Science
Vol.1976)   p.72
  Editor(s): Okamoto, T.
  Publisher: Springer-Verlag, Berlin, Germany
  Publication Date: 2000 Country of Publication: Germany   xii+630 pp.
  ISBN: 3 540 41404 5   Material Identity Number: XX-2001-00244
  Conference   Title: Advances   in   Cryptology   -   ASIACRYPT   2000.   6th
International Conference on the Theory and Application of Cryptology and
Information Security
  Conference Sponsor: Int. Assoc. Cryptologic Res. (IACR); IEICE
  Conference Date: 3-7 Dec. 2000   Conference Location: Kyoto, Japan
  Language: English   Document Type: Conference Paper (PA)
  Treatment: General, Review (G)

  Abstract: Summary form only given. The past twenty years have seen
cryptography move from arcane to commonplace, from difficult to easy, from
expensive to cheap. Many influences are at work. These include: the
professionalization of cryptographers, in which the IACR has played a
significant role; the creation of textbooks and of courses; the steady
growth of computational power delivered by the operation of Moore's law;
the algorithmic advances made by cryptographic researchers and engineers;
the rise of E-commerce and wireless infrastructures which have a seemingly
endless appetite for cryptographic services; the entry of many young people
into the field; and the easing of government export controls. We envisage a
near future where cryptographic operations will be as pervasive, cheap and
unremarkable as IP protocol operations have become today. Some things about
this future are already clear. Cryptographic operations will disappear into
the infrastructure. The complexities of cryptography and of cryptographic
key management will be bidden from users. New sorts of protocols will
become practical. New sorts of businesses will be possible. We describe
several such protocols and businesses. Other important aspects of this
future are less clear, such as the social, economic, and political
implications. We hazard guesses at these and other impacts of cryptography
everywhere. (0 Refs)
  Subfile: B C
  Descriptors: cryptography; politics; protocols; socio-economic effects
  Identifiers: cryptography; IACR; key management; protocols;
socio-economic implications; political implications
  Class Codes: B6120D (Cryptography); B6150M (Protocols); C6130S (Data
security); C5640 (Protocols); C0230 (Economic, social and political
aspects of computing)
  Copyright 2001, IEE

  2/5/2   (Item 1 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2003 INIST/CNRS. All rts. reserv.

  14917350   PASCAL No.: 01-0067294

Cryptography everywhere
Advances in cryptology - ASIACRYPT 2000 : Kyoto, 3-7 December 2000
BERSON Thomas A
OKAMOTO Tatsuaki, ed
Anagram Laboratories, P.O. Box 791, Palo Alto, CA 94302, United States;
Xerox Palo Alto Research Center, 3333 Coyote Hill Rd, Palo Alto, CA 94304,
United States
International conference on the theory and application of cryptology and
inforamtion security, 6 (Kyoto JPN) 2000-12-03
Journal: Lecture notes in computer science, 2000, 1976 p. 72
ISBN: 3-540-41404-5 ISSN: 0302-9743 Availability: INIST-16343;
354000092016260060
Document Type: P (Serial); C (Conference Proceedings) ; A (Analytic)
Country of Publication: Germany
Language: English

The past twenty years have seen cryptography move from arcane to
commonplace, from difficult to easy, from expensive to cheap. Many
influences are at work. These include: the professionalization of
cryptographers, in which the IACR has played a significant role; the
creation of textbooks and of courses; the steady growth of computational
power delivered by the operation of Moore's Law; the algorithmic advances
made by cryptographic researchers and engineers; the rise of e-commerce and
wireless infrastructures which have a seemingly endless appetite for
cryptographic services; the entry of many young people into the field; and
the easing of government export controls. We envisage a near future where
cryptographic operations will be as pervasive, cheap and unremarkable as IP
protocol operations have become today. Some things about this future are
already clear. Cryptographic operations will disappear into the
infrastructure. The complexities of cryptography and of cryptographic key
management will be hidden from users. New sorts of protocols will become
practical. New sorts of businesses will be possible. We will describe
several such protocols and businesses. Other important aspects of this
future are less clear, such as the social, economic, and political
implications. We will hazard guesses at these and other impacts of
cryptography everywhere.

English Descriptors: Communication complexity; Transmission protocol;
  Information protection; Cryptography; Computer security

French Descriptors: Complexite communication; Protocole transmission;
  Protection information; Cryptographie; Securite informatique

Classification Codes: 001D04A04E

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Set      Items     Description
S1         120     (ENCRYPTION OR CRYPTOGRAPHIC)()SERVICE?
S2     2461554     PRICE OR PRICING OR COST? OR CHARG? OR AMOUNT OR QUOTATION
S3        8680     (COMPUTATION? OR CALCULATION? OR FIGURING OR RECKONING)(2N-
                   )(BURDEN? OR CHARGE? OR COMMITMENT? OR DUTY OR OBLIGATION OR -
                   RESPONSIBILITY)
S4         262     (PRIVACY OR CONFIDENTIALITY)(2N)(LEVEL OR STATUS OR STANDI-
                   NG OR IMPORTANT? OR SCORE? OR RANK?)
S5     5587182     SPEED OR TIME OR TIMING OR PERIOD? OR INTERVAL OR CLOCK OR
                   SPACING OR FREQUENCY OR DURATION
S6           9     S1 AND S2
S7           0     S1 AND S3
S8           0     S1 AND S4
S9          23     S1 AND S5
S10          3     S6 AND S9
S11         29     S6 OR S9 OR S10
S12         25     S11 NOT PY>2000
S13         25     S12 NOT PD>20000619
S14         22     RD (unique items)
File   8:Ei Compendex(R) 1970-2003/Dec W2
           (c) 2003 Elsevier Eng.  Info. Inc.
File  35:Dissertation Abs Online 1861-2003/Nov
           (c) 2003 ProQuest Info&Learning
File 202:Info. Sci. & Tech. Abs. 1966-2003/Nov 17
           (c) 2003 EBSCO Publishing
File  65:Inside Conferences 1993-2003/Dec W3
           (c) 2003 BLDSC all rts. reserv.
File   2:INSPEC 1969-2003/Dec W1
           (c) 2003 Institution of Electrical Engineers
File 233:Internet & Personal Comp. Abs. 1981-2003/Jul
           (c) 2003, EBSCO Pub.
File  94:JICST-EPlus 1985-2003/Dec W3
           (c)2003 Japan Science and Tech Corp(JST)
File  99:Wilson Appl. Sci & Tech Abs 1983-2003/Nov
           (c) 2003 The HW Wilson Co.
File  95:TEME-Technology & Management 1989-2003/Nov W5
           (c) 2003 FIZ TECHNIK
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
           (c) 2002 The Gale Group
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T S14/5/1-5,7-8,10-12,14-16,19-22

14/5/1   (Item 1 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

05549572   E.I. No: EIP00055162174
  Title: S/390 parallel enterprise server CMOS cryptographic coprocessor
  Author: Easter, R.J.; Chencinski, E.W.; D'Avignon, E.J.; Greenspan, S.R.;
Merz, W.A.; Norberg, C.D.
  Corporate Source: IBM System, Poughkeepsie, NY, USA
  Source: IBM Journal of Research and Development v 43 n 5 1999. p 761-776
  Publication Year: 1999
  CODEN: IBMJAE   ISSN: 0018-8646
  Language: English
  Document Type: JA; (Journal Article)   Treatment: G; (General Review)
  Journal Announcement: 0006W4
  Abstract: As the Internet becomes the basis for electronic commerce, and
as more businesses automate their data processing operations, the potential
for unauthorized disclosure of sensitive data increases. On-line databases
are becoming increasingly large and complex. Sensitive data is transmitted
on communication lines and often stored off-line. As a result, the
efficient, economical protection of enterprise-critical information is
becoming increasingly important in many diverse application environments.
The protection required to conduct commerce on the Internet, provide data
confidentiality, and provide user authentication can be achieved only by
 cryptographic   services and techniques. The high- **speed** , physically
secure IBM S/390 CMOS Cryptographic Coprocessor for S/390 Parallel
Enterprise Servers, together with the IBM Integrated **Cryptographic**
 Service Facility (ICSF), an IBM licensed program for the OS/390 operating
system, provides the ability to encrypt and decrypt data, generate and
manage cryptographic keys, perform PIN operations, and perform other
cryptographic functions dealing with data integrity, digital signatures,
and key exchange. (Author abstract) 16 Refs.
  Descriptors: *Client server computer systems; Internet; Electronic
commerce; Database systems; Cryptography; Parallel processing systems; CMOS
integrated circuits; Computer hardware
  Identifiers: Parallel enterprise server; Cryptographic coprocessor
  Classification Codes:
  722.4 (Digital Computers & Systems); 723.5 (Computer Applications);
723.3 (Database Systems); 714.2 (Semiconductor Devices & Integrated
Circuits)
  722 (Computer Hardware); 723 (Computer Software); 714 (Electronic
Components)
  72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATIONS)

  14/5/2   (Item 2 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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05520850   E.I. No: EIP00045108892
  Title: High Security Modules - still needed despite advances in platforms
  Author: Stone, Tim D.; Miller, David
  Corporate Source: Baltimore Technologies plc, USA
  Source: Information Security Technical Report v 5 n 1 2000. p 42-47
  Publication Year: 2000
  CODEN: ISTRFR   ISSN: 1363-4127
  Language: English
  Document Type: JA; (Journal Article)   Treatment: G; (General Review)

Journal Announcement: 0005W4
Abstract: High or Host Security Modules (HSM) provide additional cryptographic security for messages and files. Advances in host processing capability and the advent of single chip crypto-processors have done little to dent the need for HSMs. HSMs provide security processing as a service to a host, usually on request, network security devices generally operate within the network and provide in-line security to traffic sent over the network. While each approach has value, the high security devices used to provide **cryptographic services** to hosts are presented. 6 Refs.
  Descriptors: Security of data; Computer systems programming; Response
 time (computer systems); Cryptography; Data communication systems;
Electronic commerce
  Identifiers: High security modules (HSM)
  Classification Codes:
  723.2 (Data Processing); 723.1 (Computer Programming); 722.4 (Digital
Computers & Systems); 723.5 (Computer Applications)
  723 (Computer Software); 722 (Computer Hardware)
  72 (COMPUTERS & DATA PROCESSING)

  14/5/3   (Item 3 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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05193238   E.I. No: EIP98124513088
 Title: Inline network encryption for multimedia wireless LANs
  Author: Ganz, Aura; Park, Se Hyun; Ganz, Zvi
  Corporate Source: Univ of Massachusetts, Amherst, MA, USA
  Conference Title: Proceedings of the 1998 IEEE Military Communications
Conference. Part 2 (of 3)
  Conference   Location: Bedford,   MA,   USA   Conference   Date:
19981019-19981021
  Sponsor: IEEE
  E.I. Conference No.: 49416
  Source: Proceedings - IEEE Military Communications Conference MILCOM v 2
1998. IEEE, Piscataway, NJ, USA,98CH36201. p 560-564
  Publication Year: 1998
  CODEN: PMICET
  Language: English
  Document Type: CA; (Conference Article)   Treatment: G; (General Review)
  Journal Announcement: 9902W3
  Abstract: To secure real- **time** communication in wireless LANs it is
pertinent to implement real **time cryptographic services** in software
or hardware. In this paper we evaluate the use of software based inline
encryption algorithms for wireless LANs that are implemented in the Layer
Service Provider as defined by WinSock 2 for Windows. The evaluated
encryption algorithms run on each PC that is part of the wireless LAN. We
present the throughput requirements from the inline encryptors for various
multimedia applications such as video conferencing, collaborative work,
distributed data bases and distributed processing. Our measurements show
that software implementation of various encryptors provides enough
throughput as required by the above applications. (Author abstract) 11
Refs.
  Descriptors: Local area networks; Wireless telecommunication systems;
Multimedia systems; Cryptography; Security of data; Real **time** systems;
Telecommunication services; Groupware; Computer hardware; Algorithms
  Identifiers: Inline network encryption
  Classification Codes:
  723.5 (Computer Applications); 723.2 (Data Processing); 722.4 (Digital
Computers & Systems)

716 (Radar, Radio & TV Electronic Equipment); 723 (Computer Software);
722 (Computer Hardware)
  71 (ELECTRONICS & COMMUNICATIONS); 72 (COMPUTERS & DATA PROCESSING)

14/5/4   **(Item 4 from file: 8)**
DIALOG(R)File   8:Ei Compendex(R)
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02160736   E.I. Monthly No: EI8701002499
 Title: SBS LAUNCHES PUBLIC SWITCHED   ENCRYPTION   SERVICE□.□
  Author: Anon
  Source: Electronics v 59 n 6 Feb 10 1986 p 38-40
  Publication Year: 1986
  CODEN: ELECEH
  Language: ENGLISH
  Document Type: JA; (Journal Article)   Treatment: A; (Applications)
  Journal Announcement: 8701
  Abstract: Encryption, long favored by the military to protect its
traffic, is already protecting the networks of large corporations. But it
is **costly** to implement and has not been generally available in public
switched networks. Means to secure the telecommunications traffic on a
common-carrier subnetwork at **costs** competitive with nonencrypted services
are introduced by Satellite Business Systems (SBS) that treats large
amounts of traffic in bulk through a single encryption unit before it
enters the satellite transmission system. Only one bulk-encryption unit per
earth station is required on the SBS network. The encryption unit meets
rigid federal standards for physical security and implements a variation of
the government's Data Encryption Standard (DES) output-feedback mode using
two keys - a master and a working key. The master key is used to decrypt a
working key that is changed **periodically** .
  Descriptors: *CRYPTOGRAPHY; TELECOMMUNICATION LINKS, SATELLITE--
Protection; DIGITAL COMMUNICATION SYSTEMS--Voice/Data Integrated Services;
DATA PROCESSING--Security of Data
  Identifiers: PUBLIC SWITCHED ENCRYPTION; DATA ENCRYPTION STANDARD (DES);
MASTER KEY; WORKING KEY
  Classification Codes:
  723 (Computer Software); 716 (Radar, Radio & TV Electronic Equipment);
718 (Telephone & Line Communications)
   72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATIONS)

14/5/5   **(Item 5 from file: 8)**
DIALOG(R)File   8:Ei Compendex(R)
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01913518   E.I. Monthly No: EIM8512-079801
 Title: PROJECT UNIVERSE ENCRYPTION EXPERIMENT.
  Author: Jackson, A. M.; McEvoy, N. A.; Newman, B. B.
  Corporate Source: GEC Research Lab, Marconi Research Cent, UK
  Conference   Title: International Conference on Secure Communication
Systems.
  Conference Location: London, Engl   Conference Date: 19840222
  Sponsor: IEE, Electronics Div, London, Engl; IEE, Computing & Control
Div, London, Engl; British Computer Soc, London, Engl; Inst of Acoustics,
Edinburgh, Scotl; Inst of Physics, London, Engl
  E.I. Conference No.: 05466
  Source: IEE Conference Publication n 231. Publ by IEE, London, Engl p
14-19
  Publication Year: 1984

CODEN: IECPB4   ISBN: 0-85296288-6
Language: English
Document Type: PA; (Conference Paper)
Journal Announcement: 8512
   Abstract: Project UNIVERSE is a major experiment in high bandwidth Wide
Area Networks undertaken by a consortium of industrial and academic
institutions. Those involved are British Telecom, Cambridge University, the
Department of Trade and Industry, GEC Research Laboratories-Marconi
Research Centre (MRC), Logica Ltd. , Loughborough University of Technology,
the Science and Engineering Research Council and University College London.
Local Area Networks at seven sites are connected via a communications
satellite and high- **speed** terrestrial links. The risk of interception is
particularly acute in a satellite network because of the broadcast nature
of the downlink. Therefore, as part of Project UNIVERSE, Logica and MRC
have designed and implemented an encryption system to enable secure
end-to-end communication across the UNIVERSE network. The system is based
on the United States Data Encryption Standard (DES) which Logica has
implemented in software and MRC in hardware. An 'encryption layer protocol'
has been developed which enables any application to use the **encryption
service** in a transparent fashion. 7 refs.
   Descriptors: *TELECOMMUNICATION SYSTEMS, SATELLITE RELAY--*Protection;
TELECOMMUNICATION LINKS, SATELLITE; COMPUTER NETWORKS--Local Networks;
CRYPTOGRAPHY--Applications
   Identifiers: WIDE AREA NETWORKS; LOCAL AREA NETWORKS; NETWORK TOPOLOGY;
DATA ENCRYPTION STANDARD (DES); PUBLIC KEY CRYPTOGRAPHY (PKC)
   Classification Codes:
   716 (Radar, Radio & TV Electronic Equipment); 717 (Electro-Optical
Communications); 718 (Telephone & Line Communications); 655 (Spacecraft);
723 (Computer Software)
   71 (ELECTRONICS & COMMUNICATIONS); 65 (AEROSPACE ENGINEERING); 72
(COMPUTERS & DATA PROCESSING)

   14/5/7   (Item 2 from file: 2)
DIALOG(R)File   2:INSPEC

6435010   INSPEC Abstract Number: B2000-01-6210L-146, C2000-01-5620L-058
   Title: **Experimental measurements and design guidelines for real-** time
   software encryption in multimedia wireless LANs
   Author(s): Ganz, A.; Se Hyun Park; Ganz, Z.
   Author Affiliation: Dept. of Electr. & Comput. Eng., Massachusetts Univ.,
Amherst, MA, USA
   Journal: Cluster Computing   vol.2, no.1   p.35-43
   Publisher: Baltzer,
   Publication Date: 1999 Country of Publication: Netherlands
   CODEN: CLCOFM ISSN: 1386-7857
   SICI: 1386-7857(1999)2:1L.35:EMDG;1-U
   Material Identity Number: H401-1999-004
   Language: English   Document Type: Journal Paper (JP)
   Treatment: Practical (P)
   Abstract: To secure interactive multimedia applications in wireless LANs
(WLANs), it is pertinent to implement real **time   cryptographic   services**
. We evaluate the use of software based encryption algorithms that are
implemented in the layer service provider as defined by WinSock 2 for
Windows 95/NT. Our measurements show that software implementation of
various encryptors can sustain the throughput requirements of interactive
multimedia applications for WLANs such as telephone quality audio, video
conferencing, and MPEG video. We present a design methodology that includes
guidelines for a secure multimedia system design in terms of the encryption

method chosen as a function of required application throughput, system
configuration, protocol layers overhead and wireless LAN throughput. (12
Refs)
   Subfile: B C
   Descriptors: cryptography; interactive systems; multimedia communication;
real- time systems; wireless LAN
   Identifiers: experimental measurements; design guidelines; real time
software encryption; multimedia wireless LANs; secure interactive
multimedia applications; WLANs; real time cryptographic services ;
software based encryption algorithms; layer service provider; WinSock 2;
software implementation; encryptors; throughput requirements; interactive
multimedia applications; telephone quality audio; video conferencing; MPEG
video; design methodology; secure multimedia system design; encryption
method; application throughput; system configuration; protocol layers
overhead; wireless LAN throughput
   Class Codes: B6210L (Computer communications); B6210R (Multimedia
communications); B6250 (Radio links and equipment); B6120D (Cryptography);
C5620L (Local area networks); C6130M (Multimedia); C6130S (Data security);
C6180 (User interfaces)
   Copyright 1999, IEE

   14/5/8   (Item 3 from file: 2)
DIALOG(R)File   2:INSPEC
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6258886   INSPEC Abstract Number: B1999-07-6210L-041, C1999-07-5620L-016
   Title: Inline network encryption for multimedia wireless LANs
   Author(s): Aura Ganz; Se Hyun Park; Ganz, Z.
   Author Affiliation: Multimedia Wireless LAN Lab., Massachusetts Univ.,
Amherst, MA, USA
   Conference Title: IEEE Military Communications Conference. Proceedings.
MILCOM 98 (Cat. No.98CH36201)   Part vol.2   p.560-4 vol.2
   Publisher: IEEE, New York, NY, USA
   Publication Date: 1998 Country of Publication: USA   3 vol. xxxv+1093
pp.
   ISBN: 0 7803 4506 1   Material Identity Number: XX-1998-03092
   U.S. Copyright Clearance Center Code: 0 7803 4506 1/98/$10.00
   Conference Title: IEEE Military Communications Conference. Proceedings.
MILCOM 98
   Conference Date: 18-21 Oct. 1998   Conference Location: Boston, MA, USA
   Language: English   Document Type: Conference Paper (PA)
   Treatment: Applications (A); Practical (P); Experimental (X)
   Abstract: To secure real- time communication in wireless LANs it is
pertinent to implement real time cryptographic services in software
or hardware. We evaluate the use of software based inline encryption
algorithms for wireless LANs that are implemented in the Layer Service
Provider as defined by WinSock 2 for Windows. The evaluated encryption
algorithms run on each PC that is part of the wireless LAN. We present the
throughput requirements from the inline encryptors for various multimedia
applications such as video conferencing, collaborative work, distributed
data bases and distributed processing. Our measurements show that software
implementation of various encryptors provides enough throughput as required
by the above applications. (11 Refs)
   Subfile: B C
   Descriptors: cryptography; distributed databases; groupware;
microcomputer applications; multimedia communication; telecommunication
security; teleconferencing; wireless LAN
   Identifiers: multimedia wireless LAN; inline network encryption; secure
real- time communication; real time cryptographic services ; hardware

; inline encryption algorithms; Layer Service Provider; WinSock 2 for
Windows; PC; personal computer; throughput; video conferencing;
collaborative work; distributed data bases; distributed processing;
measurements; software implementation
    Class Codes: B6210L (Computer communications); B6250 (Radio links and
equipment); B6210R (Multimedia communications); B6120D (Cryptography);
C5620L (Local area networks); C6130M (Multimedia); C6130S (Data security);
C6130G (Groupware); C6150N (Distributed systems software)
    Copyright 1999, IEE

    14/5/10   (Item 5 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

5865749   INSPEC Abstract Number: B9805-6210C-005, C9805-7100-001
    Title: Extranet security: what's right for the business?
    Author(s): Trolan, S.
    Author Affiliation: Altera Corp., San Jose, CA, USA
    Journal: Information Systems Security   vol.7, no.1   p.47-56
    Publisher: Auerbach Publications,
    Publication Date: Spring 1998 Country of Publication: USA
    CODEN: ISSEFH ISSN: 1065-898X
    SICI: 1065-898X(199821)7:1L.47:ESWR;1-I
    Material Identity Number: F173-98002
    Language: English   Document Type: Journal Paper (JP)
    Treatment: Practical (P)
    Abstract: Extranets are the evolution of business requirements to create
a separate and distinct category of network participants; for lack of a
more descriptive phrase, that is neither intranet nor Internet. By the year
2000,   estimates   are that computer access will come from external
associations. This rise in external access is coming from telecommuters,
business associates, customers, or potential customers, each with a unique
set of computing and data requirements. The solution will not be the same
for all-more aptly stated, it should not be the same for all. Choosing the
best extranet solution for a company's needs is important. To choose the
correct solution, it is important to understand clearly the available
alternatives. There are six basic extranet technologies as well as some
specialized and hybrid solutions: (1) external resources; (2) Internet
protocol (IP) address filtering; (3) authentication servers; (4)
application layer management; (5) proxy servers; and (6) **encryption
    services** . Each is sufficient to initiate business communications, but
each carries different performance, **cost** , and security. A detailed review
of each technology is presented. (0 Refs)
    Subfile: B C
    Descriptors: business communication; business data processing; computer
network management; network servers; security of data
    Identifiers: extranet security; business requirements; network
participants; computer access; external associations; telecommuters;
business associates; potential customers; data requirements; extranet
solution; extranet technologies; external resources; Internet protocol
address filtering; authentication servers; application layer management;
proxy servers; **encryption   services** ; business communications
    Class Codes: B6210C (Network management); B6210L (Computer communications
); C7100 (Business and administration); C0310D (Computer installation
management); C5620 (Computer networks and techniques); C6130S (Data
security); C0230 (Economic, social and political aspects of computing)
    Copyright 1998, IEE

14/5/11   (Item 6 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

5755308   INSPEC Abstract Number: C9801-6130E-001
 Title: **The United Kingdom policy on trusted third parties and its
implications for EDI**
  Author(s): Reed, C.; Avellan, J.
  Author Affiliation: Inf. Technol. Law Unit, Queen Mary & Westfield Coll.,
London, UK
  Journal: EDI Law Review   vol.4, no.2   p.81-9
  Publisher: Kluwer Law International,
  Publication Date: 1997 Country of Publication: Netherlands
  CODEN: EDLRE7 ISSN: 0929-2233
  SICI: 0929-2233(1997)4:2L.81:UKPT;1-O
  Material Identity Number: D356-97005
  U.S. Copyright Clearance Center Code: 0929-2233/97/$9.50
  Language: English   Document Type: Journal Paper (JP)
  Treatment: General, Review (G)
  Abstract: As part of the British government's efforts to keep pace with
the changes produced by the established and emerging network technologies
and their corresponding by-products, such as the widespread use of
cryptography, in June 1996 a report was published by the Department of
Trade and Industry (DTI) entitled "Paper on Regulatory Intent Concerning
Use of Encryption on Public Networks". This report was followed in March
1997 with a public consultation paper on detailed proposals for
legislation, "Licensing of Trusted Third Parties for the Provision of
  Encryption   Services ". During the public consultation **period** , which
ended 30 May, 1997, public comments were requested on the contents of the
legislative proposal and a meeting was held allowing the general public to
voice their opinions. The public comments have been analysed and they will
be presented to the new government so that it may determine whether
legislation will be passed and the scope of such legislation. This article
presents some of the implications the published policy could have for the
use, offer and/or provision of EDI communications. (15 Refs)
  Subfile: C
  Descriptors: cryptography; electronic data interchange; government
policies; legislation
  Identifiers: United Kingdom policy; trusted third parties; EDI; British
government; network technologies; cryptography; Department of Trade and
Industry; legislation; electronic data interchange
  Class Codes: C6130E (Data interchange); C0230 (Economic, social and
political aspects of computing); C6130S (Data security)

14/5/12   (Item 7 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

5575625   INSPEC Abstract Number: C9706-0230B-010
  Title: **Trusted third parties and the provision of**   encryption   services
  Author(s): Hill, J.
  Journal: Computers and Law   vol.8, no.1   p.30-3
  Publisher: Soc. Comput. & Law,
  Publication Date: April-May 1997 Country of Publication: UK
  CODEN: CLAWDY ISSN: 0140-3249
  SICI: 0140-3249(199704/05)8:1L.30:TTPP;1-3
  Material Identity Number: M548-97003
  Language: English   Document Type: Journal Paper (JP)

Treatment: General, Review (G)
Abstract: Trusted third party (TTP) is defined as an entity trusted by
other entities with respect to security related services and activities and
encryption services as encompassing any service, whether provided free
or not, which involves any or all of the following cryptographic
functionality-key management, key recovery, key certification, key storage,
message integrity (through the use of digital signatures), key generation,
time stamping, or key revocation services (whether for integrity or
confidentiality), which are offered in a manner which allows a client to
determine a choice of cryptographic key or allows the client a choice of
recipient. The paper raises too many issues to be dealt with fully; the
article attempts only to highlight a few of the most obvious ones, and to
try to clarify where possible those that relate to TTPs operating as
certification authorities and those as key escrow/key recovery agencies. (
0 Refs)
   Subfile: C
   Descriptors: certification; cryptography; Internet; legislation
   Identifiers: **encryption** services ; trusted third parties; security
related services; security related activities; cryptographic functionality;
key management; key recovery; key certification; key storage; message
integrity; key generation; **time** stamping; key revocation services;
cryptographic key; certification authorities; key escrow agencies; key
recovery agencies
   Class Codes: C0230B (Legal aspects of computing); C6130S (Data security)
   Copyright 1997, IEE

   14/5/14   (Item 9 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02824834   INSPEC Abstract Number: B87012925, C87011885
   Title: **Implementation of an encrypted open system local area network**
   Author(s): Dowler, B.R.
   Author Affiliation: Div. of Network Syst., IBM, London, UK
   Conference Title: Second International Conference on Secure Communication
Systems (Conf. Publ. No.269)   p.39-42
   Publisher: IEE, London, UK
   Publication Date: 1986 Country of Publication: UK   130 pp.
   ISBN: 0 85296 339 4
   Conference Sponsor: IEE
   Conference Date: 27-28 Oct. 1986   Conference Location: London, UK
   Language: English   Document Type: Conference Paper (PA)
   Treatment: Practical (P)
   Abstract: Shows the practicality of providing security via encryption
without significant performance degradation for Open Systems Networks by
producing and demonstrating an encrypting relay unit that is situated
between an end system and the network. The author also produces a unique
proprietary encryption algorithm implemented in a custom VLSI device for
use within an **encryption** service . Although this phase of development
has been concluded, work is still continuing on the integration of the
encryption service directly into the end-system, whether mainframe,
server, or workstation, with the ultimate intention of providing encryption
as a standard facility available easily and at low **cost** . (2 Refs)
   Subfile: B C
   Descriptors: cryptography; local area networks
   Identifiers: encrypted open system local area network; security;
encryption; custom VLSI device; standard facility
   Class Codes: B6120B (Codes); B6210L (Computer communications); C5620L (
Local area networks); C6130 (Data handling techniques)

14/5/15   (Item 1 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.

00522234. 99EA01-006
  **X12 EDI security: safe passage over the Internet -- X12 standards
exemplify the security functionality needed across the EDI spectrum as
companies transition to Web-based EDI**
  DeGrafft, Hart W
  e-Business Advisor , January 1, 1999 , v17 n1 p36-39, 4 Page(s)
  ISSN: 1098-8912
  Languages: English
  Document Type: Articles, News & Columns
  Geographic Location: United States
  Traces the evolution of the Electronic Data Interchange (EDI) X12
standards, explains security services established by the standards, and
mentions the need to extend the EDI security standards to increasingly
available Web-based EDI in business. Mentions the X12 EDI standards began
addressing security in the 1980s through the needs of the financial
business community. Details the two main security services: electronic
digital signature, and data encryption. Explains the X12.58 Security
Structures Standard and the X12.815 **Cryptographic Service** Message
Standard. Explains the way data compression offsets the added overhead and
  cost . Explains important ways that X12.58 and X12.815 complement each
other. Mentions that X12.58 provides network/protocol independence by
serving end-to-end protection. Says the existing standards have potential
to be extended to the Web environment. Includes one sidebar. (bjp)
  Descriptors: Electronic Data Interchange; Standards; Security;
 Business; Definitions

14/5/16   (Item 2 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.

00510188   98SR10-003
  IW Folder -- This product brings encryption   services **to the desktop
in as clean and easy a manner as we can imagine**
  SC/INFO SECURITY NEWS MAGAZINE , October 1, 1998 , v9 n10 p28, 1 Page(s)
  ISSN: 1096-7974
  Company Name: SunBurst Technologies
  URL: http://www.aec-security.com
  Product Name: IW Folder
  Languages: English
  Document Type: Software Review
  Grade (of Product Reviewed): B
  Hardware/Software Compatibility: IBM PC Compatible; Microsoft Windows;
 Microsoft Windows 95; Microsoft Windows NT
  Geographic Location: United States
  Presents a favorable review of IW Folder ($25), a security program from
SunBurst Technology Inc. (503). Says that this program is a useful tool for
assuring confidentiality of data on a machine in an open office or on
shared PCs. Explains that the package offers a management tool for editing
which subdirectory is associated with a user/password. Adds that more than
one subdirectory may be specified in this case. However, says that
decryption occurs only at system start-up **time** and re-encryption occurs
only during an orderly end process, meaning that if there is a power
failure, then the files are available to anyone who wants to look for them.

Adds that bundled with IW Folder is IW Bin, a secure deletion process that
deletes the name of a file and overwrites every used byte so that it cannot
be retrieved. Concludes IW Folder is extremely easy to operate but notes
the documentation could have been more useful. Contains one photo. (EB)
    Descriptors: Security; Encryption; File Management
    Identifiers: IW Folder; SunBurst Technologies

   14/5/19   (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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09070069
Moves to build trust in Internet trading
 UK: GOVERNMENT PUBLISHES E-COMMERCE PAPER
Independent (TI)   06 Mar 1999 p.19
Language: ENGLISH

The UK Government has published a consultation paper on electronic commerce
as a preliminary to legislation which the Government hopes will make the UK
the best setting for e-commerce trading in the world by 2002. It is vital
the UK does not get left behind as the way we do business is set to change
dramatically in the near future and there is a need to keep up. With this
legislation the Government hopes to improve public trust in trading via the
Internet and at the same **time** remove legal barriers regarding electronic
signatures which have held back the progress of e-commerce in the UK. Of
major concern is security when making purchases online. The paper is
looking for views on several major issues including; updating the law so
contracts can be signed electronically; setting up a voluntary licensing
system for business which are prepared to provide the **encryption   service**
. A task force has been established to gather opinions on such matters, and
all responses should be made by April 01 1999.
EVENT: Government Regulations (93);
COUNTRY: United Kingdom (4UK);

   14/5/20   (Item 2 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

06605939
Bezeq trials low **cost   encryption   service**
  ISRAEL: BEZEQ'S LOW **COST**   ENCRYPTION LAUNCHED
CommunicationsWeek International (CWI)   2 Mar 1998 p.10
Language: ENGLISH

Israeli telecoms firm, Bezeq, are responding to the demand for secure
telephone lines among business users by launching a test for a low- **cost**
  encryption   service . Bezeq hopes to have the service available by early
1999 at the latest. The company believes that the demand for such a product
is high, putting this down to media reports of cellular telephones being
tapped and other illegal wiretapping. A Bezeq survey said that 25% of
business users would be interested in a form of telephone security.

COMPANY:· BEZEQ

PRODUCT: Telephone Communications (4811); Telecommunications (4810);
    Computer & Data Security Software (7372CD);
EVENT: Product Design & Development (33); Product Standards (35);
    National Government Economics (94);

COUNTRY: Israel (8ISR);

   14/5/21   (Item 3 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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06104648
Next Generation Digital Cellular Phone Call
   US: ADVANCE IN CELLULAR DIGITAL PHONE SERVICES
Telecommunications News (ZCD)   15 Jan 1995 p.3
Language: ENGLISH

New Digital Technology for **Time** Division Multiple Access (TDMA) has been
used by three telephone firms - <US> firm McCaw Cellular, <Finnish> firm
Nokia Mobile Phones and <Swedish> firm Ericsson - to make the first ever
cellular digital phone call. The latest type of TDMA used, IS-136, has
officially been declared as the next cellular digital network level by the
Telecommunications   Industry Association. The infrastructure for this
telephone first was made by Ericsson. The IS-136 technology allows caller
line identification and **encryption** **services** as well as giving greater
line capacity.

COMPANY: TELECOMMUNICATIONS INDUSTRY ASSN; ERICSSON; NOKIA MOBILE PHONES;
MCCAW CELLULAR

PRODUCT: Cellular Radio Services (4811CR);
EVENT: Product Design & Development (33);
COUNTRY: Sweden (5SWE); Finland (5FIN); United States (1USA);

   14/5/22   (Item 4 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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01862495
TELENET LAUNCHES X.25 **ENCRYPTION   SERVICE**
   US - TELENET LAUNCHES X.25 **ENCRYPTION   SERVICE**
Telephony (TLY)   4 April 1988 p18
ISSN: 0040-2656

Telenet Communications has launched an X.25 packet-data network **encryption**
   service . The new service will give end-to-end security for synchronous,
asyschronous, dial-up and dedicated network customers. The X.25 **encryption**
   service will be linked to Telenet's Access Management System, providing
greater security for its 2000 host computers. The **encryption   service**
will have an additional **cost** of USD1r200 per access point on top of
   charges   for TAMS.

PRODUCT: Data Communications Equipment (3661DC); Data Communications (
4811DC); Private Telephone Systems (4811PE);
EVENT: PRODUCTS, PROCESSES & SERVICES (30);
COUNTRY: United States (1USA); NATO Countries (420); South East Asia
   Treaty Organisation (913);
?

```
Set      Items     Description
S1        1590     (ENCRYPTION OR CRYPTOGRAPHIC)()SERVICE?
S2     9328444     PRICE OR PRICING OR COST? OR CHARG? OR AMOUNT OR QUOTATION
S3        1752     (COMPUTATION? OR CALCULATION? OR FIGURING OR RECKONING)(2N-
                   )(BURDEN? OR CHARGE? OR COMMITMENT? OR DUTY OR OBLIGATION OR -
                   RESPONSIBILITY)
S4        3689     (PRIVACY OR CONFIDENTIALITY)(2N)(LEVEL OR STATUS OR STANDI-
                   NG OR IMPORTANT? OR SCORE? OR RANK?)
S5     8741749     SPEED OR TIME OR TIMING OR PERIOD? OR INTERVAL OR CLOCK OR
                   SPACING OR FREQUENCY OR DURATION
S6         162     S1 (S) S2
S7           0     S6 (S) S3
S8           0     S6 (S) S4
S9          40     S6 (S) S5
S10         29     S9 NOT PY>2000
S11         24     S10 NOT PD>20000619
S12         21     RD (unique items)
File   15:ABI/Inform(R) 1971-2003/Dec 20
          (c) 2003 ProQuest Info&Learning
File 810:Business Wire 1986-1999/Feb 28
          (c) 1999 Business Wire
File 647:CMP  Computer Fulltext 1988-2003/Dec W3
          (c) 2003 CMP Media, LLC
File 275:Gale Group Computer DB(TM) 1983-2003/Dec 23
          (c) 2003 The Gale Group
File 674:Computer News Fulltext 1989-2003/Dec W1
          (c) 2003 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2003/Dec 22
          (c) 2003 The Dialog Corp.
File 624:McGraw-Hill Publications 1985-2003/Dec 22
          (c) 2003 McGraw-Hill Co. Inc
File 636:Gale Group Newsletter DB(TM) 1987-2003/Dec 23
          (c) 2003 The Gale Group
File 813:PR Newswire 1987-1999/Apr 30
          (c) 1999 PR Newswire Association Inc
File 613:PR Newswire 1999-2003/Dec 23
          (c) 2003 PR Newswire Association Inc
File   16:Gale Group PROMT(R) 1990-2003/Dec 23
          (c) 2003 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
          (c) 1999 The Gale Group
File 553:Wilson Bus. Abs. FullText 1982-2003/Nov
          (c) 2003 The HW Wilson Co
?
```

T S12/5,K/ALL

12/5,K/1   **(Item 1 from file: 15)**
DIALOG(R)File   15:ABI/Inform(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01776592   04-27583
               USE FORMAT 9 FOR FULL TEXT
 Developments in the use of encryption
Corbitt, Terry
Management Accounting-London v77n1 PP: 62 Jan 1999 CODEN: MATGBA ISSN:
    0025-1682 JRNL CODE: MAC
DOC TYPE: Journal article LANGUAGE: English   LENGTH: 1 Pages
WORD COUNT: 1250

ABSTRACT: With the increasing growth of the internet and the desire of the
business world to use it for electronic commerce, encryption is a necessity
for security. The government is preparing to regulate electronic commerce
and legislation is expected for this in 1999. There are 4 requisites for
trusted communication: 1. authentication, 2. non-repudiation, 3. integrity,
4. encryption. To implement a framework for electronic commerce the
government proposes legislation on encryption giving legal recognition to
digital signatures for the first time. It will also implement a voluntary
licensing scheme for CAs or other providers of encryption services.

GEOGRAPHIC NAMES: UK
DESCRIPTORS: Data encryption; Data integrity; Computer security;
   Legislation; Electronic commerce
CLASSIFICATION CODES: 9175 (CN=Western Europe); 5140 (CN=Security); 5250
   (CN=Telecommunications systems); 4320 (CN=Legislation)

...TEXT: electronic commerce the government proposes legislation on
encryption giving legal recognition to digital signatures for the first
  time . It will also implement a voluntary licensing scheme for CAs or
other providers of **encryption**   **services** . Licensed organisations would
have to deposit copies of scrambling keys with bodies called Trusted Third
Parties (TTPs...

... by police and security agencies. Privacy advocates, human rights
activists and software vendors oppose keyescrow as a **costly** mechanism
that threatens civil liberties. Phillip Zimmermann, the creator of the
encryption program called Pretty Good Privacy...

12/5,K/2   **(Item 1 from file: 647)**
DIALOG(R)File 647:CMP Computer Fulltext
(c) 2003 CMP Media, LLC. All rts. reserv.

00515282   CMP ACCESSION NUMBER: IWK19920810S1984
 WEAK LINKS - For corporate spies, low-tech communications are easy marks
Mary E. Thyfault and Stephanie Stahl with Joseph C. Panettieri
INFORMATIONWEEK, 1992, n 386, 26
PUBLICATION DATE: 920810
JOURNAL CODE: IWK   LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: COVER STORY
WORD COUNT: 2313
TEXT:
    Don't look now, but somebody may be watching you.

... Ratliffe. But that doesn't seem to concern most users. Although Kirkland, Wash.-based McCaw offers an **encryption** **service** that carries a $500 one- **time** hardware **cost** , plus a monthly service☐charge☐of $15 to $30, "We don't have a lot of takers," says Ratliffe.
"Not many of...

12/5,K/3   (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

02281078   SUPPLIER NUMBER: 54211179   (USE FORMAT 7 OR 9 FOR FULL TEXT)
 Certificates, keys, and security.(security concerns relating to Internet use)(Internet/Web/Online Service Information)
Pleas, Keith
PC Magazine, 203(1)
April 20, 1999
ISSN: 0888-8507   LANGUAGE: English   RECORD TYPE: Fulltext; Abstract
WORD COUNT: 3603   LINE COUNT: 00290

ABSTRACT: Technologies such as digital certificates and public key encryption are taking on increased significance as the Internet rapidly takes on more importance in our corporate and individual lives. Digital certificates are issued by certificate authorities (CA). Certificates, which are signed with private keys and verified with public keys, are used for establishing secure Web connections, authenticating Web clients, encrypting and signing e-mail transmissions, and publishing software.

 GEOGRAPHIC CODES/NAMES: 1USA United States
 DESCRIPTORS: Internet/Web technology; Encryption; Digital signature;
  Privacy issue; Public key encryption
 FILE SEGMENT: CD File 275
...   organization.
    Why would an organization want to be a root CA? Often, it's a matter of **cost** . VeriSign's OnSite license, for example, is priced from $4,000 for up to 500 users to...direct user interface, and works with both Microsoft and non-Microsoft browsers and Web servers. It uses
 Cryptographic   Service Providers (CSPs) and the CryptoAPI under the hood and is accessed through several programmable objects and command...

...a more complete user interface, built-in support for CA hierarchies, and additional capabilities such as a **time** -stamping server.
    Digital Certificates
    The most common form of digital certificates are signature certificates, which contain some...

12/5,K/4   (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

02038456   SUPPLIER NUMBER: 19146503   (USE FORMAT 7 OR 9 FOR FULL TEXT)
OPENVISION PLANS APPLICATION SPECIFIC MANAGEMENT AND BACK-UP TOOLS - THE FIRST STOP IS SAP'S R/3.
Computergram International, n3102, pCGN02180008
Feb 18, 1997
ISSN: 0268-716X   LANGUAGE: English   RECORD TYPE: Fulltext
WORD COUNT: 282   LINE COUNT: 00025

 FILE SEGMENT: CD File 275

TEXT:

    ...analysis. As well as making R/3 sites more robust, OpenVision says
the aim is to reduce **cost** of ownership, claiming that many first- **time**
SAP customers overspend on their first purchase by trying to project too
far into the future. Research house International Data Corp says the **cost**
of ownership of an R/3 system is at least ten times its product **price**   .
OpenVision developed Axxion for SAP over at Bay Networks Inc, which went
overboard on its SAP installation...

...a nightmare trying to put the thing together and manage it. A range of
security, authentication and **encryption   services** can now be plugged
into R/3 via the programming interfaces SAP is integrating on OpenVision's
...

...set to start in April, priced from $175,000 for a database and three
application servers. The **price** rises as application servers are added.
OpenVision plans other custom Axxion suites for the other applications,
such...

   12/5,K/5   (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

01803139   SUPPLIER NUMBER: 17221440
 UUNet and Motorola unwrap wares for nonclassified nets.
Sikorovsky, Elizabeth
Federal Computer Week, v9, n12, p28(2)
May 29, 1995
ISSN: 0893-052X   LANGUAGE: English   RECORD TYPE: Abstract

ABSTRACT: UUNet Technologies and Motorola are both releasing network
security suites. The products are targeted at federal users who would like
to conduct secure, high- **speed** communications over the Internet.
Conducting these communications over the Internet offers a big **price**
advantage over use of value-added networks. Products like the ones being
released by take away a significant **amount** of traffic from the
value-added networks. UUNet currently provides high- **speed** data encryption
using the Data Encryption Standard (DES), a firewall, authentication, and
security consulting. The services provide a way for users to conduct
research and CAD over the Internet, and also permits users to share
documents securely in real **time**   . The company attempts to create a virtual
network over the Internet for its customers. Motorola will also be offering
its own firewall and DES **encryption   services** through a new business
unit.
 COMPANY NAMES: Motorola Inc.--Services; UUNet Technologies Inc.--Services
 DESCRIPTORS: Company Services; Company Service Introduction; Network
  Security Software; Internet
 TICKER SYMBOLS: MOT
 FILE SEGMENT: CD File 275

...ABSTRACT: network security suites. The products are targeted at federal
users who would like to conduct secure, high- **speed** communications over
the Internet. Conducting these communications over the Internet offers a
big **price** advantage over use of value-added networks. Products like the
ones being released by take away a significant **amount** of traffic from the
value-added networks. UUNet currently provides high- **speed** data encryption
using the Data Encryption Standard (DES), a firewall, authentication, and
security consulting. The services provide...

...conduct research and CAD over the Internet, and also permits users to share documents securely in real **time** . The company attempts to create a virtual network over the Internet for its customers. Motorola will also be offering its own firewall and DES **encryption** **services** through a new business unit.

   12/5,K/6   **(Item 1 from file: 674)**
DIALOG(R)File 674:Computer News Fulltext
(c) 2003 IDG Communications. All rts. reserv.

   080049
   Front News
   Journal: Network World   Page Number: 6
   Publication Date: December 13, 1999
   Word Count: 666   Line Count: 62

   Text:
   ...a first-day percentage gain on Wall Street. VA Linux, which started the day with an offer **price** of $30, saw its shares rise to a high of $320 before closing at $239.25 on...

   ...alternative to Microsoft's Windows operating system that has been touted by some. as a strong, low- **cost** platform for Web servers.BroadVision broadens visionLast week, e-commerce software provider BroadVision made its first acquisition...

   ... systems meet the basic Level 1 requirements of the FIPS 140-1 standard. In other words, the **encryption** **services** work without known flaws.Nice day at the optical beachThere hasn't been much opportunity to get...

   ... called Qtera, and if a rumored $2.5 billion to $3.5 billion deal goes through, that **time** is running out. Nortel Networks is reported to be sniffing around the year-old Boca Raton start...

   ...will be ready to ship technology that enables all-optical transport gear that can cut the equipment **cost** for long-haul fiber networks by 90%. The deal would not only enrich Nortel's fiber-optic...

   12/5,K/7   **(Item 1 from file: 696)**
DIALOG(R)File 696:DIALOG Telecom. Newsletters
(c) 2003 The Dialog Corp. All rts. reserv.

00697387
   ELECTRONIC COMMERCE
TELECOMS STANDARDS & APPROVALS REVIEW
October 20, 1999   VOL: 4   ISSUE: 9   DOCUMENT TYPE: NEWSLETTER
PUBLISHER: PHILLIPS BUSINESS INFORMATION
LANGUAGE: ENGLISH   WORD COUNT: 540   RECORD TYPE: FULLTEXT

   Standard for electronic signature   Aware that Electronic Commerce is the future way of conducting business between companies across local, wide area and global networks such as the Internet,

COMPANY NAME(S): American Management Systems Inc ; AMSis Telecommunications Industry Group ; Business Solutions ; Chief ; Confederation of British

Industry ; Electronic Commerce ; ETSI SECURITY

TEXT:
...published a draft ETSI Standard, ES 201
733: "Electronic signature standardisation for business transactions .
Following a **period** for public comment the document will go for
approval by the ETSI SECURITY project and finally for...

...severe difficulties. Earlier this
year the UK government abandoned proposals to enforce a key escrow
procedure for **encryption   services** . But the current draft of the
Electronic Communications Bill is the subject of much criticism from
the...intercept electronic transactions and gain
access to confidential data. The concerns expressed are about the
practicality and **cost** of providing for this access; not the principle
of giving such powers to the government agencies. There...

  12/5,K/8   (Item 2 from file: 696)
DIALOG(R)File 696:DIALOG Telecom. Newsletters
(c) 2003 The Dialog Corp. All rts. reserv.

00662419
  E-BUSINESS ISSUES KEEP BANKING CEOs UP AT NIGHT
ELECTRONIC COMMERCE NEWS
March 29, 1999   VOL: 4   ISSUE: 13   DOCUMENT TYPE: NEWSLETTER
PUBLISHER: PHILLIPS BUSINESS INFORMATION
LANGUAGE: ENGLISH   WORD COUNT: 460   RECORD TYPE: FULLTEXT

    During a Banking Industry Technology Secretariat (BITS) symposium de
tailing security and trust-building initiatives for e- commerce this month,
 financial institutions were issued a

    (c) PHILLIPS PUBLISHING INTERNATIONAL All Rts. Reserv.

COMPANY NAME(S): American Bankers Association ; ABAecom ; Banking Industry
Technology ; BITS ; Telcordia Technologies

TEXT:
...years ago, the CEOs wouldn't have said these
things," says Catherine Allen, CEO of BITS.
"The **time** is now [to promote e-commerce security measures], and
it's passing those who wait. Applications are...
...Washington-based ABAecom, a for-
profit unit of the American Bankers Association that provides
electronic authentication and **encryption   services** to financial
institutions.

Questions Of Direction

A small army of software vendors have tied their futures to...

...protocol - largely ignored by the U.S.
banking and e-commerce industries?
"Skeptics are looking at the **cost** of [PKI and other security]
infrastructures, and it's a valid point - in the consumer market.
It...

...grow," says William Barr, executive director for
Morristown, N.J.-based telecom firm Telcordia Technologies.

"But the **time** to invest in business-to-business [e-commerce
initiatives] is now, if it's not too late...

   12/5,K/9   **(Item 3 from file: 696)**
DIALOG(R)File 696:DIALOG Telecom. Newsletters
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00659383
   Items of Interest
Report on Smart Cards
March 15, 1999 VOL: 13 ISSUE: 5 DOCUMENT TYPE: NEWSLETTER
PUBLISHER: BRP PUBLICATIONS
LANGUAGE: ENGLISH   WORD COUNT: 966   RECORD TYPE: FULLTEXT

    * Visa International March 8 said it would launch the Chip Offline Pr
e-Authorized Card (COPAC) this year in Ghana. Standard Chartered Bank Ghan
a plans to issue some 60,000 smart cards under

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COMPANY NAME(S): Allied Banks ; Allied Irish Banks ; Bank of Ireland ;
Cadence Design Systems Inc ; Norman Access Control ; Norman Data Defense
Systems ; PubliCARD Inc ; Samsung Electronics Co Ltd ; Schlumberger Smart
Cards & Terminals ; Siemens Semiconductors ; Standard Chartered Bank Ghana
; Sun Microsystems Inc ; Telecom Eireann ; Tritheim Technologies ; VeriFone
Inc ; Visa International

TEXT:
...Access, a new smart card based on Java technology that combines multiple
application capabilities with built-in **cryptographic**   **services** .
Cyberflex Access provides information security services - digital
signatures, authentication and authorization - with application security
features, such as...

...the power of smart card technology in an open, user- programmable form
to help customers cut both **cost** and **time** to market." Schlumberger:
http://www.slb.com

   12/5,K/10   **(Item 4 from file: 696)**
DIALOG(R)File 696:DIALOG Telecom. Newsletters
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00615450
   SUMMARY OF RESPONSES TO THE CONSULTATION PAPER
TELECOMMS FRAUD REVIEW
June 1, 1998   VOL: 2   ISSUE: 6   DOCUMENT TYPE: NEWSLETTER
PUBLISHER: PHILLIPS BUSINESS INFORMATION
LANGUAGE: ENGLISH   WORD COUNT: 1080   RECORD TYPE: FULLTEXT

    DTI Public Consultation paper on Licensing of Trusted Third   Par
ties for the Provision of Encryption Services produced 260   respon
ses, 129 by conventional mail or fax and 131 by

      (c) PHILLIPS PUBLISHING INTERNATIONAL All Rts. Reserv.

COMPANY NAME(S): Encryption Services

TEXT:

DTI Public Consultation paper on Licensing of Trusted Third
Parties for the Provision of **Encryption** **Services** produced 260
responses, 129 by conventional mail or fax and 131 by e-mail. 102 were
from...
...difficulty of defining exclusions.
There were fears that the proposed licensing conditions would be
too burdensome and **costly** . A tiered approach was advocated by some,
with varying TTP licensing conditions depending on the range of
functions offered. There were many pleas from business organisations
for the maximum **amount** of freedom to be left to the market, and many
expressed confidence that in this fast-changing...session key
being handed over or a master key of some kind. If the latter, then
any **time** limit specified in the warrant could be ignored.
* The design, implementation and operation of the systems
necessary...conveniently
available to them...') was not considered convincing. The conclusion
drawn was that the proposals would bring **cost** and complexity to law-
abiding users while not necessarily achieving the results the law
enforcement authorities want.
...

   12/5,K/11   (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
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03829222   Supplier Number: 48315731   (THIS IS THE FULLTEXT)
 IBM TO RELEASE OS/390 VERSION 2 RELEASE 5 IN MARCH
Report on IBM, v15, n8, pN/A
Feb 25, 1998
ISSN: 0742-5341
Language: English   Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 1111
TEXT:
Has Component Broker For Distributed Applications
     IBM on Monday announced the March availability of OS/390 Version 2
Release 5, the IBM flagship operating system for IBM S/390 servers. The
release is enhanced with features designed to facilitate secure e-business,
effective server consolidation and systems management, and application
development.
     OS/390 is UNIX 95 branded, enabling developers to deploy new UNIX
applications or port existing applications from UNIX and other leading
application environments to the S/390 platform. OS/390 also is ITAA
certified.
     The release enhances OS/390 security services with the integration of
Triple DES (Data Encryption Standard), a high-level data encryption
implementation, the Secure Electronic Transaction (SET) protocol, digital
certificates and OS/390 Firewall Technologies. All of the technologies
exploit the previously announced IBM S/390 cryptographic coprocessor, a
hardware-embedded chip that is standard with the S/390 G4 Enterprise
Server, providing customers with better security than can be achieved with
software alone, according to IBM.
     Tom Rosamilia, director of IBM's S/390 software division, said IBM was
"making the safety net wider and stronger" for users who want to conduct
business over the Internet.
     "IBM is now providing enterprise customers with a significantly
enhanced secure Web server with the latest release of OS/390," said David
Carlucci, general manager, IBM S/390 Division. "No other platform offers
such a wide safety net for intranet, extranet and Internet transactions. By

extending our security support to provide extra value to our customers, we have integrated S/390's existing strengths with new and improved technologies."

"IBM has merged the best of what was RACF with the modern security services needed for Web and network computing -- all in the standard release of OS/390," said Jim Hurley, director of information security with Aberdeen Group, a Boston-based consulting group.

"These integrated security services make it possible for users to reuse critical CICS, DB2, IMS and TSO-based applications for critical networked application deployments," Hurley continued. "By providing an integrated set of security services with the release of OS/390, including firewalls, Web servers, a wide variety of authentication credentials, high **speed** and high-strength **cryptographic** **services** and modern user management tools and interfaces, IBM is defining a new **cost** -effective envelope for decision makers."

S/390 and the OS/390 operating environment are Web-ready, offering three levels of security -- network, system and transaction-level security -- for e-business applications.

Hardware/Software Security

The S/390 cryptographic coprocessor chip, along with the IBM Integrated Cryptographic Services Facility (ICSF), and Triple DES encryption provide more reliable transaction-level security at a higher performance level than customers can obtain with just software. The ICSF has been extended to support SET V1.0, the security protocol developed jointly by Visa International, MasterCard, IBM and others, and is available in March with OS/390.

The ICSF provides cryptographic support for Visa and MasterCard user verification, reducing risk of losses resulting from alteration and counterfeiting of the credit card's magnetic stripe. SET is a standard technology that is used with the IBM CommercePoint products. CommercePoint products exploit the CMOS cryptographic hardware and provide customers with a high level of transaction security.

IBM also integrated security enhancements with OS/390 V. 2 Rel. 5. These include the Lightweight Directory Access Protocol (LDAP), digital certificates, hardware cryptography support for SET and Firewall Technologies.

Enhanced Security

* LDAP. The OS/390 Security Server has been enhanced with LDAP, a new directory service on OS/390 that allows any LDAP client across an enterprise to search, extract and delete information from a directory located on an LDAP S/390 server. With the LDAP capability on S/390, customers now may consolidate directory functions from their distributed environment to S/390, simplifying system management and benefitting from S/390 security.

* Firewall technologies. The Firewall Technologies, available as a kit with OS/390 Version 2 Release 4, is now integrated with OS/390 V. 2 Rel. 5. It works with the cryptographic coprocessor and builds upon existing S/390 security capabilities to offer customers higher levels of protection for network applications by helping to control user access to separate servers inside and outside a network. The Firewall Technologies provides customers with high network security to transact e-business as the firewall screens every piece of data as it enters and leaves a network. The Firewall Technologies also contains a "Virtual Private Network" function designed to allow data to flow securely across a network or between networks.

* Digital certificates. Provide Web browser users accessing the Internet with a signed electronic document that contains information uniquely identifying the user. These digital certificates provide users with a high level of system security. OS/390 Security Server will accept authenticated digital certificates from the Domino Go Webserver and associate that certificate with an OS/390 Security Server user, without

requiring that user to enter a user ID or password. The user then can access OS/390 resources or data.
    Commerce Enablement Tools
    OS/390 also is allowing customers to conduct business over the Internet with Net.Commerce. In addition, customers can access a S/390 Web server and work with Java.
    * Net.Commerce Version 3.0. When used with Domino Go Webserver, Net.Commerce Version 3.0, available with OS/390 V. 2 Rel. 5, will enable customers to set up an Internet presence to showcase products and services to conduct e-business. Domino Go Webserver is a high-performance Web server with full-text search capabilities and dynamic workload balancing. Net.Commerce supports payment transactions using SET and offers Catalog Assistant to help shoppers choose purchases.
    * eNetwork Host On-Demand. IBM also announced eNetwork Host On-Demand Version 2 for S/390, software that allows any Java-enabled client to access a Web server on S/390 and download a 100 percent pure Java applet. The end user then can access any host on a network, without the need for an intermediate server. Support of Java applets is centralized on one platform making working with Java easy.
    Component Broker for OS/390
    OS/390 also is offering to selected customers a beta of Component Broker for OS/390. Component Broker masks the complexity of enterprise computing by tying together disparate systems found in today's Fortune 500 companies via an object framework, thereby letting customers focus on their core businesses rather than writing code. Now available on Windows NT as a comprehensive solution of software, services and education, Component Broker is comprised of Component Broker Connector (CBConnector) and the supporting Component Broker Toolkit (CBToolkit). At completion of the beta program later this year, Component Broker for OS/390 will be available for OS/390 V. 2 Rel. 5 and OS/390 Version 2 Release 6 customers.
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PUBLISHER NAME: DataTrends Publications, Inc.
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
  Automation)
...   with the release of OS/390, including firewalls, Web servers, a wide variety of authentication credentials, high **speed** and high-strength **cryptographic** **services** and modern user management tools and interfaces, IBM is defining a new **cost** -effective envelope for decision makers."
    S/390 and the OS/390 operating environment are Web-ready, offering...

   12/5,K/12   (Item 2 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
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03828862   Supplier Number: 48315087 (THIS IS THE FULLTEXT)
 IBM: IBM offers S/390 customers wider safety net to conduct e-business
M2 Presswire, pN/A
Feb 25, 1998
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 949
TEXT:
M2 PRESSWIRE-25 February 1998-IBM: IBM offers S/390 customers wider safety net to conduct e-business (C)1994-98 M2 COMMUNICATIONS LTD
    RDATE:230298
    IBM today announced the industry's premier system security for conducting business over the Internet. This leading security comes from a

one-two punch of a software/hardware solution integrated with IBM's flagship enterprise operating system, OS/390, and IBM S/390 Parallel Enterprise servers - Generation 3 and Generation 4.

IBM also announced enhancements to OS/390 that will provide customers with higher levels of performance for UNIX, Web serving and traditional applications, a server consolidation solution for enhanced print server management and improved application development. At the heart of today's announcement is OS/390 Version 2 Release 5, available in March.

"IBM is now providing enterprise customers with a significantly enhanced secure Web server with the latest release of OS/390," said David Carlucci, general manager, IBM S/390 Division. "No other platform offers such a wide safety net for intranet, extranet and Internet transactions. By extending our security support to provide extra value to our customers, we have integrated S/390's existing strengths with new and improved technologies."

S/390 and the OS/390 operating environment can provide customers with three critical levels of security -- network, system and transaction-level security -- for e-business applications. S/390's set of system integrity, resource control, cryptographic and network security features, combined with existing S/390 classic strengths, bring customers a Web-ready server solution with no need to reinvest in a totally new infrastructure to launch e-business applications.

This OS/390 release highlights significant enhancements to the OS/390 security services with the integration of Triple DES (Data Encryption Standard), a high-level data encryption cryptographic standard. IBM's offering of Triple DES, like standard DES, exploits the previously announced IBM S/390 cryptographic coprocessor, a hardware- embedded chip standard with the S/390 G4 Server. Triple DES integration is unique within IBM to the S/390 G4 servers. Triple DES is available in accordance with applicable country export regulations.

IBM Offers High Level Data Protection

Triple DES, with the hardware cryptographic coprocessor, is designed to provide customers with exponentially stronger encryption protection than what standard DES or software alone currently offers. Triple DES, critical for financial institutions, is based on DES, a reliable standard for network and information security for the past 20 years.

In addition to Triple DES, IBM today announced extensions to its industry-leading security beyond the OS/390 Security Server, formerly known as Resource Access Control Facility (RACF) and Distributed Computing Environment (DCE), to make it easier for customers to extend their rock-solid security model to e-business and server consolidation. These security enhancements, integrated with OS/390 V. 2 Rel. 5, include the Lightweight Directory Access Protocol, digital certificates, hardware cryptography support for the Secure Electronic Transaction (SET) protocol and Firewall Technologies.

"IBM has merged the best of what was RACF with the modern security services needed for Web and network computing -- all in the standard release of OS/390," said Jim Hurley, director of information security with Aberdeen Group, a Boston- based consulting group.

"These integrated security services make it possible for users to reuse critical CICS, DB2, IMS and TSO-based applications for critical networked application deployments," Hurley continued. "By providing an integrated set of security services with the release of OS/390, including firewalls, Web servers, a wide variety of authentication credentials, high **speed** and high-strength **cryptographic   services** and modern user management tools and interfaces, IBM is defining a new **cost** -effective envelope for decision makers."

High Performance Connectivity and Web Access

In addition to premier Web security offerings, S/390 made its Web server a world-class performer. IBM significantly redesigned the TCP/IP

services in OS/390 eNetwork Communications Server to take full advantage of
the performance and scalability of the S/390 servers. These new TCP/IP
services will enable UNIX, Web serving and traditional applications to
benefit from improved performance, function and increased connectivity
bandwidth with native
     ATM and Fast Ethernet. For high demand S/390 Web serving environments,
the High Speed Web Access service is included.
     Internal IBM performance tests using High Speed Web Access with
OS/390's Domino Go Webserver 4.6 have measured a ten-fold improvement in
Web connections per second -- more than 3,000 connections. The improved
speed means the customer's S/390 Web server could handle more than 200
million Internet hits a day.
     Server Consolidation
     While OS/390 V. 2 Rel. 5 offers customers security and connectivity
performance improvements, the new release also allows customers to
consolidate workloads on a single S/390 platform, helping reduce complexity
and operating costs, and improve manageability. The new OS/390 Print Server
can handle both host and LAN printing for native UNIX applications and
TCP/IP connected clients, eliminating the need for multiple print servers
enterprisewide. Customers can specify any printer connected to the S/390
server to handle the print job.
     Component Broker for OS/390
     OS/390 V. 2 Rel. 5 also is offering to selected customers a beta
version of Component Broker for OS/390. Component Broker for OS/390 is
IBM's enterprise solution for distributed object computing, providing a
scalable, manageable run-time for developing and deploying multi-tier
component-based applications.
     OS/390, S/390 Parallel Enterprise Server Generation 3 and Generation
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INDUSTRY NAMES: BUSN (Any type of business); INTL (Business,
  International)

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 cryptographic   **services** and modern user management tools and interfaces,
IBM is defining a new **cost** -effective envelope for decision makers."
     High Performance Connectivity and Web Access
     In addition to premier Web security...

   12/5,K/13   (Item 3 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
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03828150   Supplier Number: 48313072   (THIS IS THE FULLTEXT)
 IBM: IBM offers customers wider safety for e-business on the Internet
M2 Presswire, pN/A
Feb 24, 1998
Language: English   Record Type: Fulltext

Document Type: Newswire; Trade
Word Count: 881
TEXT:
M2 PRESSWIRE-24 February 1998-IBM: IBM offers customers wider safety for
e-business on the Internet (C)1994-98 M2 COMMUNICATIONS LTD
     RDATE:230298
     IBM today announced extensions to its OS/390 operating system that
greatly improve the security of transacting business over the Internet for
banks and financial institutions. This industry-leading security comes from
unique features of IBM S/390 hardware that are exploited by OS/390 Version
2 Release 5, which is available in March. Also announced are enhancements
to the operating system that will provide customers with higher levels of
performance for UNIX and Web serving, a server consolidation solution for
managing network printing, and the availability of new application
development tools.
     OS/390 V2.5 features new system security from its integration of
Triple DES (Data Encryption Standard). IBM's Triple DES, like standard DES,
exploits the previously announced IBM S/390 cryptographic coprocessor, a
hardware embedded chip that is standard with the IBM S/390 Parallel
Enterprise Server -- Generation 4 and is unique within IBM to the S/390 G4
servers. Outside North America, Triple DES will require licensing in
compliance with U.S. export regulations.
     The S/390 cryptographic coprocessor chip, along with the IBM
Integrated Cryptographic Services Facility (ICSF) and Triple DES encryption
provide customers with far stronger encryption protection than standard DES
or software alone currently offers. In addition, the ICSF has been extended
to support SET Version 1.0, the security protocol developed jointly by Visa
International, MasterCard, IBM and others. The ICSF and SET provide
cryptographic support for Visa and MasterCard user verification, reducing
the risk of losses resulting from alteration and counterfeiting of the
card's magnetic stripe.
     In addition to Triple DES, IBM today announced extensions to its
industry-leading security, beyond the OS/390 Security Server, formerly
known as Resource Access Control Facility (RACF) and Distributed Computing
Environment (DCE) security functions, to make it easier for customers to
extend their rock-solid security model to e- business and server
consolidation. These security enhancements, integrated with OS/390 V. 2.5
include the Lightweight Directory Access Protocol, digital certificate,
hardware cryptography support for SET protocol and Firewall Technologies.
     "IBM has merged the best of what was RACF with the modern security
services needed for Web and network computing -- all in the standard
release of OS/390," said Jim Hurley, director of information security with
Aberdeen Group, a consulting group based in Boston, U.S.A.
     "These integrated security services make it possible for users to
reuse critical CICS, DB2, IMS and TSO-based applications for critical
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integrated set of security services with the release of OS/390, including
firewalls, Web servers, a wide variety of authentication credentials, high
 speed and high-strength cryptographic   services and modern user
management tools and interfaces, IBM is defining a new cost -effective
envelope for decision makers."
     High Speed Web Access
     IBM has also significantly redesigned the TCP/IP services in OS/390
eNetwork Communications Server to take full advantage of the performance
and scalability of the S/390 servers. These new TCP/IP services will enable
UNIX, Web serving and traditional applications to benefit from improved
performance, function and increased connectivity bandwidth with native ATM
and Fast Ethernet. For high demand S/390 Web serving environments, the High
Speed Web Access service is included.
     Internal IBM performance tests using High Speed Web Access with

OS/390's Domino Go Webserver 4.6 have measured a ten-fold improvement in
Web connections per second -- more than 3,000 connections. The improved
speed means the customer's S/390 Web server could handle approximately 200
million Internet hits a day.
    Server Consolidation
    OS/390 2.5 also allows users to consolidate print workloads on a
single S/390 platform, helping reduce complexity and costs. The new OS/390
Print Server can handle both host and LAN printing for native UNIX
applications and TCP/IP connected clients, eliminating the need for
multiple print servers enterprise-wide. Customers can specify any network
printer connected to the S/390 server to handle the print job.
    Component Broker for OS/390
    As previously announced OS/390 2.5 also is offering selected customers
a beta version of Component Broker for OS/390, a new programming tool
intended to help users to rapidly design and develop new applications using
object-oriented technology. At completion of the beta programme later this
year, Component Broker for OS/390 will be available for OS/390 V.2.5. It is
expected to be general available, at no additional charge, as part of
OS/390 Version 2 Release 6 in September this year.
    OS/390, S/390 Parallel Enterprise Server Generation 3 and Generation
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 cryptographic   services and modern user management tools and interfaces,
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    High Speed Web Access
    IBM has also significantly redesigned the TCP/IP...

   12/5,K/14   (Item 4 from file: 636)
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02588907   Supplier Number: 45233401   (THIS IS THE FULLTEXT)
 IT SECURITY IN THE FINANCIAL SECTOR
Computer Fraud & Security Bulletin, pN/A
Jan, 1995
ISSN: 0142-0496
Language: English   Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 2459
TEXT:
Chris Amery Zergo Ltd Computer systems are arguably less secure today than

ever before. This is because they are inherently more complex. Just about
all sectors have enthusiastically embraced distributed computing in its
many forms. Local and wide area networks now proliferate, linked to large
numbers of desktop terminals. Nowhere is this more so than in the financial
sector. Banks and insurance companies have rolled out large numbers of
networked PCs throughout their branch networks. As a result, more and more
sensitive data now passes between the branch and head office. Sales staff
and senior managers are increasingly equipped with portable PCs. Huge
amounts of money are now transmitted in electronic form every day on a
national and international basis. True 24-hour trading, including
electronic matching and settlement, is now a reality. Self-service banking
is also on the increase as banks seek alternative ways to deliver products.
This consists of anything from the ubiquitous automated teller machine to
unmanned, fully automated branches. The same forces are driving the
provision of remote links to retail customers in the form of home banking
services and to corporate customers for enquiry and trade generation
purposes. For the future, many banks are currently evaluating the selling
and marketing opportunities offered by the much hyped 'information
superhighway' or new technologies such as interactive CDs (CD-I). Of
course, not so long ago all data and all of the applications used to reside
on a big mainframe in the data centre. Now, however, it is the network that
is at the heart of every financial organization's IT infrastructure. But
every node and every PC on the network represents a potential security
risk. PCs and operating systems such as DOS and Unix were not designed with
security in mind and are therefore inherently insecure. So too network
protocols such as TCP/IP and network types such as X.25, Ethernet, Token
Ring, and, in particular, dial-up circuits. Without added security there is
no way to ensure that data is accessed only by those authorized to do so.
Even less secure is the Internet which was designed very much with openness
in mind. It arose from higher education and was intended as a bulletin
board which everyone could access. Companies which now have gateways onto
the Internet are potentially opening the door to the outside world. So how
great are the risks and what should financial organizations be doing to
counter them? There are many potential threats, of which hacking and
viruses generate the most publicity. The fear that these breed is reflected
in the fact that some previous hackers now make a healthy living out of
consultancy work. For instance, Chris Googans, who was arrested when he was
15 for being a member of the notorious Legion of Doom hacking group,
recently captured the attention of an audience of IT security managers in
the UK. He told them that only a very small minority of hackers are ever
caught, that hackers are now driven increasingly by a desire to make money
(a particular worry to banks, therefore), and that hackers are clearly very
technically adept but that often they infiltrate systems by exploiting poor
administrative procedures. In fact, internal staff are likely to pose an
even greater threat. The recently publicized case of sensitive security
telephone numbers from a British Telecom database finding their way onto
the Internet is now thought to have stemmed not from hacking but from
infiltration by a journalist working as a temporary employee within BT.
Over one third of security breaches are deliberate but the majority of
these are as a result of fraudulent or malicious behaviour by existing or
former staff. Equally serious is the threat of accidental causes whether
through the failures of hardware, software, networks or humans. Errors by
the latter cannot be viewed in isolation. There is a known example of a
human operator at a bank entering an incorrect data parameter. This
resulted in a number of foreign exchange and money market deals on a ledger
being wrongly posted. The bank's own portfolio could not be managed for two
days while it sorted out the mess. The operator should not have typed in
the wrong data parameter, but the system should not have been able to
accept it. Another significant threat is systems' downtime, for whatever
reason. It is virtually impossible to measure the overall **cost** of

security breaches to the financial services industry. Much of it still goes unreported. It is also difficult to define. If someone has just withdrawn money from an ATM and is then mugged, should this be included in the statistics? How about if that person has the ATM card itself stolen? Five different surveys will come up with five different answers, none of which are likely to be much help in combating the problem. What can be said is that the problem seems to be on the increase. A recent report by the Audit Commission found that the number of reported computer abuse incidents from over 1000 organizations almost tripled between 1990 and 1993. So what should financial organizations do to counter the threats? Firstly, fundamentally, they need to identify and quantify the threats. Where are the weaknesses in the systems and procedures? There should be regular internal and external audits which adopt a methodical and independent approach to this issue, taking in asset identification and valuation, threat and vulnerability assessment, testing where applicable, and the production of baseline control reports. The review might well be based on an existing methodology such as CRAMM. The task should encapsulate not only the systems but also considerations such as building security, staff vetting, business continuity planning and backup procedures. Responsibility for security policy and coordination should be specifically allocated to members of staff. Security evaluation must also be an on-going job involving continuous assessment of the problems and solutions. After all, the pace of change within most financial services organizations means that the underlying systems themselves are constantly changing. A key part of any organization's security structure is the need for integrated, comprehensive documentation which sets out the security policy and all related standards, practices, products and procedures. Barclays Bank has recently produced such a study which is intended to define the specific security measures across the entire bank. This sort of initiative is linked to the need for senior management to demonstrate its full and explicit support for security policies. This is important because security is likely to inconvenience staff and can generate hostility. Employees must be made to understand the importance of security and must be aware of senior commitment to the cause. After all, staff are a key element in making systems and organizations more secure. They need to be vigilant and should be encouraged to report any suspicious circumstances. Indeed, this is now being enforced in some quarters. The European Union's money laundering directive is being implemented in the UK within the Money Laundering Regulations and Criminal Justice Act. This introduces a number of offenses including failure to disclose information to the police if someone knows or suspects that another person is engaged in drug money laundering. This is particularly applicable to the back office staff of banks who are now legally obliged to report any suspicious circumstances. Ultimately no one can afford to make any system 100% secure. The key issue is to identify the areas of greatest risk and ensure that these are effectively managed. When weighing the potential losses against the cost of security it is important to consider this within the context of the overall business. For instance, if an ATM network is breached then a financial loss will be incurred, but a potentially much more damaging result will be a loss of confidence among existing and potential customers. Other considerations include the fact that security measures may impact the performance of the systems and organization itself. It is no good making a system virtually watertight if it grinds to a halt as a result. Security measures may also inconvenience customers. For instance, a number of banks now say that their customers must collect new ATM cards and/or PINs from their branch. This is clearly more secure than sending the cards and numbers through the post, but it does inconvenience the customer. As a result, those banks that have adopted such a policy are still in the minority. Similarly, it is widely accepted that PINs are not particularly secure. However, they are convenient. From a technical point of view, it is perfectly feasible to

introduce security based on retina scans, signature verification, fingerprint reading and the like but not only are these still potentially very **costly** they may also not be acceptable to the majority of customers. There is a very wide range of security solutions available of which some of the more common include passwords, keys, tokens, smartcards, encryption and authentication, and artificial intelligence for identifying anomalies in credit usage for instance. Indeed, there is so much going on in this market that it is difficult to keep up with the changes. Here, as elsewhere, most organizations are likely to need help from security specialists. New approaches and techniques for security are being defined every month, new products are continually coming onto the market, and standards are slowly starting to appear. Pressure is also growing from outside forces including regulators such as central banks, which carry out regular audits. Banks must also give careful consideration to the implications of the Consumer Protection Act. New legislation is also currently being demanded by the European Union. One area which is particularly worthy of attention is that of application security. Users often assume that adequate security has been built in at the design stage, but this is seldom the case. One possible solution is to attack the problem at the software design stage. This is being done by NatWest Bank, for instance, which is providing all of its systems and applications developers with a risk assessment tool. Incorporating elements of artificial intelligence, the tool allows the bank to weight risk based on past experiences and statistical analysis. Users can drill down through the data and are provided with risk assessments measured by a range of criteria. It is clearly not a panacea but it does place the emphasis for security on to the systems and applications developers themselves. They are not security specialists and are usually fighting against tight deadlines and budgets, often unsuccessfully. It is easy to ignore security in the race to meet pressing business requirements. The NatWest approach works for new in-house applications development but what about security legacy and packaged software sourced from third party vendors? In terms of the latter, the UK Government is putting a lot of emphasis on a formal evaluation and certification based on the European ITSEC initiative. The first ITSEC criteria were published in mid 1991 and are intended for use in evaluating the security of products and systems. The ITSEC criteria have not been widely used outside the public sector, mainly because they have been found to be too formal, too **time** -consuming and too expensive and the new Common Criteria being developed jointly in Europe, USA and Canada may not be an improvement in that respect. Some form of testing and evaluation is important, but, for the **time** being at least, the ITSEC criteria seem to be less practical than those offered by some security specialists. With regard to the more technical aspects of system security, there is a strong argument for services to be handled centrally rather than in the application. It is a more flexible approach in that the security aspects do not have to be written from scratch for every new application. Systems can be changed and new applications can be added without significantly impacting overall security. It also ensures consistency, allowing users to dispense with the inefficiencies of trying to support different approaches to security for different applications. The high **cost** of the monolithic approach has restricted the use of **cryptographic services** to only the most critical applications, often forcing companies to accept levels of risk that are greater than can be justified. Where the two are detached, the security facilities, such as those for ensuring the confidentiality and integrity of data, reside on a server. The application effectively becomes the client, calling the relevant security facilities as required via standard programming interfaces (APIs). The security facilities can be bought in an off-the-shelf, modular fashion and can significantly reduce development and implementation times an important consideration in ever more competitive markets. The benefits of such an approach are currently being reaped by the

Italian banking community among others. CIPA, the strategic committee
representing all of the major Italian banks, carried out a review of IT
procedures. Out of this came a plan to implement additional security across
the inter-bank, X.25 network. Secure messaging is now provided through easy
to use encryption keys which are distributed at appropriate levels. There
are over 200 banks on the network and these use a vast array of
applications. The security services reside on servers and are therefore
detached from the disparate bank systems. As a result, there have been
considerable **cost** savings and the majority of system operations are
transparent to the user, with a common look-and-feel provided regardless of
the underlying platform. Awareness of the problems and possible solutions
is growing, but there is still a stigma surrounding the whole area of
security, especially in a sector as sensitive as finance. This is one
reason why so many breaches go unreported. The fear of bad publicity and
undermining public confidence are powerful influences. This means that
lessons are not shared and everyone is left to tackle the thorny questions
of systems security more or less in isolation although user groups like the
European Security Forum can be very effective as 'multipliers' of
experience and good practice. One indication that computer security may be
coming out of the closet at last is the recent setting up of Europe's first
specialized postgraduate diploma in information technology security. This
has been developed by Royal Holloway, University of London, in conjunction
with Zergo Ltd. It is designed to provide theoretical expertise. Key rates
of study include cryptography, network security, systems security, and
information security management. As companies continue to invest in new
technology and continue to roll out new systems, the security implications
must be taken into consideration from the outset. It is vital that
financial services organizations take a thorough and methodical approach to
systems security. It should be an on-going, centrally coordinated task
involving regular health checks, reviews and audits. Security can no longer
be treated as an after thought, it must be a core component of all systems
planning.

PUBLISHER NAME: Elsevier Science, Inc.
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
   Automation); GOVT (Government and Law); INTL (Business, International)

   (USE FORMAT 7 FOR FULLTEXT)
TEXT:
...Another significant threat is systems' downtime, for whatever reason. It
is virtually impossible to measure the overall **cost** of security breaches
to the financial services industry. Much of it still goes unreported. It is
also...of greatest risk and ensure that these are effectively managed. When
weighing the potential losses against the **cost** of security it is
important to consider this within the context of the overall business. For
instance...

...retina scans, signature verification, fingerprint reading and the like
but not only are these still potentially very **costly** they may also not be
acceptable to the majority of customers. There is a very wide range...

...widely used outside the public sector, mainly because they have been
found to be too formal, too **time** -consuming and too expensive and the new
Common Criteria being developed jointly in Europe, USA and Canada...

...be an improvement in that respect. Some form of testing and evaluation
is important, but, for the **time** being at least, the ITSEC criteria seem
to be less practical than those offered by some security...

...dispense with the inefficiencies of trying to support different
approaches to security for different applications. The high **cost** of the
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result, there have been considerable **cost** savings and the majority of
system operations are transparent to the user, with a common look-and...

   12/5,K/15   (Item 5 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
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02437257   Supplier Number: 44857780   (THIS IS THE FULLTEXT)
PRODUCT NEWS
Network Week, n132, pN/A
July 22, 1994
ISSN: 0965-3031
Language: English   Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 371
TEXT:
Motorola Inc's Wireless Data Group says it is now targeting the end of the
year for shipment of the Envoy personal wireless communicator as a result
of extended testing. Envoy, based on General Magic Corp's Magic Cap
communicating applications system and Telescript communications language,
is the first hand-held device to feature three types of communications.
Houston, Texas-based LAN Support Group has launched NetSqueeze and
NetSqueeze+Encryption, NetWare Loadable Modules said to provide file
compression and **encryption   services** for NetWare 3.x and 4.x file
servers. According to the company, NetSqueeze provides real- **time** ,
transparent compression. It claims that the offering increases file storage
capacity by up to 60%. NetSqueeze+ Encryption encrypts files before they
are compressed, and allows administrators to keep private files on NetWare
servers, says the company. It also reportedly enables administrators to
specify which users can use **encryption   services** . Each module lists for
$250 and will ship from September in the US. Tucson, Arizona-based Artisoft
Inc has added a new option to its entry- level version of the LANtastic
operating system, Simply LANtastic (Network Week, 096), in the form of
add-on kits with new parallel port adapters. The kits are available
immediately, **costing** $179. The move is designed to allow users to tie
laptop computers into their Simply LANtastic networks. Milton Keynes-based
Psion Dacom has announced a new ISA adapter designed to allow users of its
PCMCIA-based Gold Card modem range to use their modems within ISA-based
desktop computers: the company believes that, rather than opting for two
modems for desktop and laptop machines, users will want to double-up and
share modems between the two types of computer. The 8 bit ISA half card is
to **cost** 50 when bought with a Psion Gold Card modem, or 99 purchased
separately. Sun Microsystems Computer Co is shipping the SunFastEthernet
switchable 10/100Mbps 100Base-T "Fast Ethernet" adaptor. The onboard
100Base-TX transceiver enables the adaptor to run over two-pair Category 5
UTP wiring while the Media Independent Interface, when connected to an
external third-party transceiver, enables the adaptor to run over
additional wiring types, including fibre, STP and four-pair Category 3 and
4 UTP wiring. The single-wide card uses the core CSMA/CD protocol of IEEE
802.3; it **costs** $800.
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COPYRIGHT 1999 Gale Group
PUBLISHER NAME: ComputerWire, Inc.
COMPANY NAMES: *LAN Support Group Inc.; Motorola Inc.; Psion Dacom; Sun
  Microsystems Inc.
EVENT NAMES: *330 (Product information)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372620 (Network Software); 3661271 (Data Modems);
  3661257 (LAN/WAN Adapters); 3662152 (Ground Mobile Radio Systems)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
  Automation); INTL (Business, International)
NAICS CODES: 51121 (Software Publishers); 334418 (Printed Circuit
  Assembly (Electronic Assembly) Manufacturing); 33421 (Telephone
  Apparatus Manufacturing); 33422 (Radio and Television Broadcasting and
  Wireless Communications Equipment Manufacturing)
TICKER SYMBOLS: MOT; SUNW

  (USE FORMAT 7 FOR FULLTEXT)
TEXT:
...Support Group has launched NetSqueeze and NetSqueeze+Encryption, NetWare
Loadable Modules said to provide file compression and **encryption**
 services for NetWare 3.x and 4.x file servers. According to the company,
NetSqueeze provides real- **time** , transparent compression. It claims that
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Encryption...

...on NetWare servers, says the company. It also reportedly enables
administrators to specify which users can use **encryption**   **services** . Each
module lists for $250 and will ship from September in the US. Tucson,
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...in the form of add-on kits with new parallel port adapters. The kits are
available immediately, **costing** $179. The move is designed to allow users
to tie laptop computers into their Simply LANtastic networks...

...and share modems between the two types of computer. The 8 bit ISA half
card is to **cost** 50 when bought with a Psion Gold Card modem, or 99
purchased separately. Sun Microsystems Computer Co...

...UTP wiring. The single-wide card uses the core CSMA/CD protocol of IEEE
802.3; it **costs** $800.

  12/5,K/16   **(Item 1 from file: 813)**
DIALOG(R)File 813:PR Newswire
(c) 1999 PR Newswire Association Inc. All rts. reserv.

1209519   LAM048
RSA Launches Field Trial of BSAFE 4.0 With Elliptic Curve Technology

DATE: January 12, 1998   08:04 EST   WORD COUNT: 1,146

    SAN FRANCISCOJan. 12 /PRNewswire/ -- -- -- RSA DATA SECURITY CONFERENCE
-- Software developers will now be able to get first-hand experience with
elliptic curve cryptography (ECC) as RSA Data Security, Inc., today
launched a field trial of the latest version of its BSAFE(TM) toolkit and
encryption engine. The BSAFE 4.0 engine marks the introduction of elliptic
curve technology to RSA's product line, giving developers who want to begin
researching and prototyping solutions using this technology the ability to
do so using the familiar BSAFE API.

Elliptic curve cryptosystems have a number of properties that make them attractive tools for meeting the security requirements of a growing number of applications, but the technology has yet to be subjected to broadly-based scrutiny from the developer community. RSA believes the scope of this field trial will play an important role in fostering an evaluation of the effectiveness of ECC technology. RSA's goal is to have ECC-enabled trial BSAFE toolkits in the hands of at least 50 selected developers by the second quarter of 1998. Participation in the field trial is free.

Initial members of the field trial include ASIC International, Atalla Corp., Intel Corporation, Microsoft Corporation, Netscape Communications Corporation, Network Computer, Inc., Rainbow Technologies, Inc., Security Dynamics Technologies, Inc., Verifone, Inc. and VeriSign, Inc.

"While many public-key cryptosystems proposed over the years have been broken or found to be too costly, elliptic curve cryptosystems appear promising at this point and deserve further analysis," said Jim Bidzos, president of RSA Data Security. "Our focus has always been on providing the right cryptographic technology to suit the diverse needs of our customers."

"Microsoft is pleased to see the increasing choice of cryptographic technologies to satisfy the diverse needs of our customers such as Elliptic Curve Cryptography as found in BSAFE 4.0," said Barbara Fox, Security Architect at Microsoft. "Developers can use the Microsoft CryptoAPI framework and choose from the large number of Cryptographic Service Providers available from ISVs for integrating different cryptographic algorithms into their applications."

"Security is among the most important issues facing developers as they design and deploy intranets and extranets," said Taher ElGamal, chief scientist at Netscape Communications Corporation. "This broad-based market trial will provide the development community with the real-world experience needed to understand and realize the full potential of elliptic curve technology."

The BSAFE engine, an industry leading encryption engine with more than 300 million copies embedded in developer applications, reduces the **time** , costs, and complexity associated with the development of secure applications. The BSAFE engine is designed to provide developers with the security components they need for a wide range of applications, including digitally signed forms, private Internet communications, signed, tamperproof applications, secure wireless communications, and virtual private networks. The RSA-base **Cryptographic Service** Provider for Microsoft's CryptoAPI is based on BSAFE.

ECC cryptosystems are especially attractive for applications such as embedded systems where memory size and processing power are limited. The elliptic curve functions in the BSAFE 4.0 engine include the generation of EC parameters, computation and verification of EC DSA signatures, and EC Diffie- Hellman key agreement following IEEE P1363, as well as an ECC encryption scheme. The BSAFE 4.0 engine is designed to provide support for all three types of elliptic curve cryptography, including so-called "odd," "even- normal," and "even polynomial" variants. The BSAFE 4.0 engine also provides data compression functions, an open hardware interface for running cryptographic accelerators under BSAFE API, and compliance with the emerging ANSI X9 series of public key standards for the financial industry. Eventually BSAFE 4.0 will integrate with other RSA products, such as the recently announced Certificate Security Suite(TM), which is based on the CDSA specification and would support ECC as a cryptographic service provider.

The BSAFE 4.0 toolkit continues to include standard public key algorithms such as RSA, DSA and Diffie-Hellman; a wide range of symmetric encryption algorithms, including RC2, RC4, RC5, DES and Triple DES; as well as message digest algorithms MD2, MD5 and SHA-1. Important security components such as password-based encryption, random number generation and Bloom-Shamir secret sharing are also provided.

"Scrupulous crypto-analysis of ECC is still in its infancy," said Scott Schnell, RSA's vice president of marketing. "But the BSAFE 4.0 encryption engine prepares developers for a number of opportunities by offering implementations for use today and for tomorrow's possibilities."

While elliptic curve cryptography is not yet in significant commercial use, RSA has been involved for several years in the standardization of elliptic curve cryptosystems as part of the IEEE P1363 project, and in developing elliptic curve technology through its RSA Laboratories division and also in partnership with the State key Laboratory of Information Security (LOIS) of the People's Republic of China. RSA Laboratories maintains an ongoing program of studying new techniques for efficient implementation of ECC and other cryptosystems and standards to ensure robustness and interoperability of resulting applications.

Sign-up for the Beta program will begin on Wednesday, January 14 at the RSA booth, RSA Data Security Conference. Developers wishing to participate in the field trial of the BSAFE 4.0 encryption engine may also visit the RSA Developers' Corner section of RSA's Web site at http://www.rsa.com/rsa/developers/, or contact Jeremy Steiglitz at 650-595-8782.

About RSA Data Security, Inc.

RSA Data Security, Inc., a wholly owned subsidiary of Security Dynamics Technologies, Inc. (Nasdaq: SDTI), is a leading supplier of software components that secure electronic data, with more than 300 million copies of RSA encryption and authentication technologies installed worldwide. RSA technologies are part of existing and proposed standards for the Internet and World Wide Web, ISO, ITU-T, ANSI, IEEE, and business, financial and electronic commerce networks around the globe. RSA develops and markets platform-independent security components and related developer kits and provides comprehensive cryptographic consulting services. RSA can be reached at http://www.rsa.com.

BSAFE and Certificate Security Suite(TM) are trademarks of RSA Data Security, inc. All other product or brand names are trademarks or registered trademark of their respective owners.

This press release contains forward-looking statements relating to the planned market trial and release by RSA Data Security, Inc. of its BSAFE 4.0 developer's toolkit and encryption engine and such statements involve a number of risks and uncertainties. Among the important factors that could cause actual results to differ materially from those indicated by such forward- looking statements are delays in product development, undetected software errors or bugs, competitive pressures, technical difficulties, general economic conditions and the risk factors detailed from time to time in Security Dynamics' periodic reports and registration statements filed with the Securities and Exchange Commission, including without limitation Security Dynamics' Registration Statement on Form S-3, as amended (File No. 333-35035), filed on September 5, 1997.

SOURCE RSA Data Security, Inc.

        CONTACT: Patrick Corman of Corman Communications, 650-326-9648 or
corman cerfnet.com

    Web site: http://www.rsa.com

    (SDTI)

    COMPANY NAME: RSA DATA SECURITY, INC.
    TICKER SYMBOL: SDTI (NDQ)
    PRODUCT: COMPUTER, ELECTRONICS (CPR); INTERNET, MULTIMEDIA,
                         ONLINE (MLM)
    DESCRIPTORS: NEW PRODUCTS & SERVICES (PDT)
    STATE: CALIFORNIA (CA)
    SECTION HEADING: BUSINESS; TECHNOLOGY

... an industry leading encryption engine with more than 300 million copies
embedded in developer applications, reduces the **time** , costs, and
complexity associated with the development of secure applications. The
BSAFE engine is designed to provide...

... forms, private Internet communications, signed, tamperproof
applications, secure wireless communications, and virtual private networks.
The RSA-base **Cryptographic Service** Provider for Microsoft's CryptoAPI
is based on BSAFE.

    ECC cryptosystems are especially attractive for applications such...

    12/5,K/17   (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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04644019   Supplier Number: 46832624   (USE FORMAT 7 FOR FULLTEXT)
  **RACAL INTRODUCES SNMP-MANAGED SECURE DATA PROTECTION FOR FRAME RELAY
  NETWORKS WITH THE DATACRYPTOR 64F ENCRYPTOR**
News Release, pN/A
Oct 28, 1996
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 998
PUBLISHER NAME: Various
COMPANY NAMES: *Racal Corp.
EVENT NAMES: *330 (Product information)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *3662367   (Antitheft Devices NEC)
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)
NAICS CODES: 33429 (Other Communications Equipment Manufacturing)
SPECIAL FEATURES: COMPANY

    (USE FORMAT 7 FOR FULLTEXT)
TEXT:
...sNMP device is the lowest priced frame relay SNMP encryptor on the
market today, with a list **price** of $2,995. The product is approved for
use throughout North and South America and Europe; and...

...64F frame relay encryptor offers an economical alternative to T1/E1
encryptors when used for the lower **speed** 56/64Kbps circuits that
constitute the vast majority of frame relay connections. GLOBAL APPLICATION
Potential users of...

...for optimum security. Under user control, selected connections can be encrypted while others are not, saving the **cost** of installing encryption devices at frame relay sites that do not require security. The Datacryptor 64F frame...

...is assured of secure key distribution and control. Key changes can be performed automatically without operator Intervention. **Cryptographic service** messages are authenticated with a secure protocol ensuring information integrity. BUILT-IN FEATURES Racal has designed the...

...character display provides valuable information on equipment status, including operating mode, active alarms and the date and **time** of important network events. The Data Link Connection Identifiers (DLCI's), which identify secured and unsecured virtual...

   12/5,K/18   (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.

04258545   Supplier Number: 46236946 (USE FORMAT 7 FOR FULLTEXT)
 Send Private Information Safely Over A Public Frame Relay Network:
News Release, pN/A
March 20, 1996
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 997
PUBLISHER NAME: Various
COMPANY NAMES: *Racal-Datacom Inc.
EVENT NAMES: *330 (Product information)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *3662627   (Encryption/Decryption Equip)
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)
NAICS CODES: 33429 (Other Communications Equipment Manufacturing)
SPECIAL FEATURES: COMPANY

   (USE FORMAT 7 FOR FULLTEXT)
TEXT:
...encryptor is designed to provide an economical alternative to TI/E1 encryptors when used for the lower **speed** 56/64Kbps circuits that constitute the vast majority of frame relay connections. Protection for information in all...

...for optimum security. Under user control, some connections can be encrypted while others are not, saving the **cost** of installing encryption devices at frame relay sites that do not require security. The Racal Datacryptor Key...

...is assured of secure key distribution and control. Key changes can be performed automatically without operator intervention. **Cryptographic service** messages are authenticated using a secure protocol ensuring information integrity. For companies that require high volume data...

...character display provides valuable information on equipment status, including operating mode, active alarms and the date and **time** of important network events. The Data Link Connection Identifiers (DLCI's), which identify secured and unsecured virtual...

...powerup, be selected at the front panel or commence in response to Key Center commands at any **time** during operation. Available tests include

ROM/RAM, S-box, key parity, cipher feedback, checkword and memory. A...

   12/5,K/19   (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.

02442183   Supplier Number: 43217641   (USE FORMAT 7 FOR FULLTEXT)
WEAK LINKS
InformationWeek, p26
August 10, 1992
ISSN: 8750-6874
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Tabloid; General Trade
Word Count: 2297
PUBLISHER NAME: CMP Publications, Inc.
COMPANY NAMES: *Corning Inc.; International Business Machines Corp.; Texas
   Instruments Inc.
EVENT NAMES: *980 (Legal issues & crime); 260 (General services)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *4810000   (Telecommunication Services ex Broadcast);
   3662192   (Facsimile Equipment); 3570000   (Office & Computing Machines);
   3670000   (Electronic Components); 3210000   (Glass Products)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
   Automation); TELC (Telecommunications)
NAICS CODES: 5133 (Telecommunications); 33421 (Telephone Apparatus
   Manufacturing); 3359 (Other Electrical Equipment and Component
   Manufacturing); 3272 (Glass and Glass Product Manufacturing)
TICKER SYMBOLS: GLW; IBM; TXN
SPECIAL FEATURES: INDUSTRY; COMPANY

...   Ratliffe. But that doesn't seem to concern most users. Although
Kirkland, Wash.-based McCaw offers an **encryption   service** that carries a
$500 one- **time** hardware **cost** , plus a monthly service☐charge☐of $15 to
$30, 'We don't have a lot of takers,' says Ratliffe.
     'Not many of...

   12/5,K/20   (Item 4 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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01308926   Supplier Number: 41536293
NEW SECURITY PRODUCTS ENCRYPT DATA AT HIGH SPEEDS
News Release, p1
Sept 5, 1990
Language: English   Record Type: Abstract
Document Type: Magazine/Journal; Trade

ABSTRACT:
IBM today announced the industry's first integrated cryptographic feature
and a new cryptographic architecture to help safeguard customers' vital
information assets. The optional integrated cryptographic feature and its
associated software enable customers to process large amounts of encrypted
data up to four times faster than IBM's previous high-end processor
encryption offering, resulting in a dramatic reduction in the **cost** of
encryption. Also introduced today was a product providing enhanced security
capability for workstations and personal computers, plus new "anti- virus"
measures. The new high- **speed** Integrated Cryptographic Feature (ICRF)
consists of a tamper-resistant Thermal Conduction Module (TCM) for

water-cooled models of Enterprise System/9000* processors and a key- entry
unit. Integrated **Cryptographic   Service** Facility/MVS (ICSF/MVS), a
licensed program, is required for ICRF operation. Customers use the
key-entry unit to enter master cryptographic keys into a secure key storage
unit connected to the TCM by a tamper- resistant shielded cable. ICRF and
ICSF/MVS also provide the high-performance bulk cryptography facility
customers need to protect sensitive high- volume transaction processing
applications. ICRF and ICSF/MVS support up to 1,000 IMS Fastpath
transactions per second. This high performance is achieved by running ICRF
operations at processor speeds rather than the channel speeds of previous
offerings, using MVS/ESA* features and keeping cryptographic keys in
processor storage rather than moving them between the processor and
input-output devices. A single ICRF can support up to seven Processor
Resource/Systems Management* (PR/SM)* partitions, each operating with its
own unique master key. IBM today announced two measures to minimize the
threat of harmful code, such as "viruses" and "worms," to customers'
operations: -- IBM will offer an updated IBM Anti-Virus Product for DOS
users to deal with more recently discovered viruses. -- IBM will also begin
distributing software media, running on all platforms from workstations to
the largest processors, in tamper- evident packaging as added protection
against unauthorized modifications.
PUBLISHER NAME: Various
COMPANY NAMES: *International Business Machines Corp.
EVENT NAMES: *330 (Product information)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *3662627   (Encryption/Decryption Equip); 7372691   (Data
    Encryption Software)
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)
NAICS CODES: 33429 (Other Communications Equipment Manufacturing); 51121
    (Software Publishers)
TICKER SYMBOLS: IBM
SPECIAL FEATURES: COMPANY

ABSTRACT:
...faster than IBM's previous high-end processor encryption offering,
resulting in a dramatic reduction in the **cost** of encryption. Also
introduced today was a product providing enhanced security capability for
workstations and personal computers, plus new "anti- virus" measures. The
new high- **speed** Integrated Cryptographic Feature (ICRF) consists of a
tamper-resistant Thermal Conduction Module (TCM) for water-cooled models of
Enterprise System/9000* processors and a key- entry unit. Integrated
 Cryptographic   Service Facility/MVS (ICSF/MVS), a licensed program, is
required for ICRF operation. Customers use the key-entry...

   12/5,K/21   (Item 1 from file: 553)
DIALOG(R)File 553:Wilson Bus. Abs. FullText
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04050103   H.W. WILSON RECORD NUMBER: BWBA99050103   (USE FORMAT 7 FOR
FULLTEXT)
 Mass market solutions for mobile data.
AUGMENTED TITLE: general packet radio service
Clever, Michael
Telecommunications v. 33 no6 (June 1999) p. 40+
DOCUMENT TYPE: Feature Article   ISSN: 0040-2494
LANGUAGE: English
COUNTRY OF PUBLICATION: United States
RECORD TYPE: Fulltext   RECORD STATUS: Corrected or revised record
WORD COUNT: 2987

DESCRIPTORS:
  Mobile communication systems; GSM (Global system for mobile
  communications)
SIC CODES: 4812

  (USE FORMAT 7 FOR FULLTEXT)

TEXT:
...   However, Seshu Madhavapeddy, senior product manager for Nortel
Networks' wireless data products division, believes that low service **costs**
will be essential for GPRS success. "It will be not **speed** alone, but
price performance that matters. There is a market for wireless Internet
services but even corporate intranet use is **price** sensitive, and this is
at the high-end." As the **cost** of running traffic over a GPRS system is
estimated to be one third that of a circuitswitched...

...the corporate intranet market for wireless operators." He envisions
early service offerings to include VPNs, security and **encryption**
services as well as customised services for large corporate accounts.
      However, GPRS is also widely regarded as the...
?